B 9

```
NNN         NNN  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT     AAAAAAAAA        CCCCCCCCCCCC  PPPPPPPPPPPP
NNN         NNN  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT     AAAAAAAAA        CCCCCCCCCCCC  PPPPPPPPPPPP
NNN         NNN  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT     AAAAAAAAA        CCCCCCCCCCCC  PPPPPPPPPPPP
NNN         NNN  EEE                    TTT        AAA         AAA  CCC              PPP         PPP
NNN         NNN  EEE                    TTT        AAA         AAA  CCC              PPP         PPP
NNN         NNN  EEE                    TTT        AAA         AAA  CCC              PPP         PPP
NNNNNN      NNN  EEE                    TTT        AAA         AAA  CCC              PPP         PPP
NNNNNN      NNN  EEE                    TTT        AAA         AAA  CCC              PPP         PPP
NNNNNN      NNN  EEE                    TTT        AAA         AAA  CCC              PPP         PPP
NNN   NNN   NNN  EEEEEEEEEEEE           TTT        AAA         AAA  CCC              PPPPPPPPPPPP
NNN   NNN   NNN  EEEEEEEEEEEE           TTT        AAA         AAA  CCC              PPPPPPPPPPPP
NNN   NNN   NNN  EEEEEEEEEEEE           TTT        AAA         AAA  CCC              PPPPPPPPPPPP
NNN      NNNNNN  EEE                    TTT        AAAAAAAAAAAAAAA  CCC              PPP
NNN      NNNNNN  EEE                    TTT        AAAAAAAAAAAAAAA  CCC              PPP
NNN      NNNNNN  EEE                    TTT        AAAAAAAAAAAAAAA  CCC              PPP
NNN         NNN  EEE                    TTT        AAA         AAA  CCC              PPP
NNN         NNN  EEE                    TTT        AAA         AAA  CCC              PPP
NNN         NNN  EEE                    TTT        AAA         AAA  CCC              PPP
NNN         NNN  EEEEEEEEEEEEEEE        TTT        AAA         AAA     CCCCCCCCCCCC  PPP
NNN         NNN  EEEEEEEEEEEEEEE        TTT        AAA         AAA     CCCCCCCCCCCC  PPP
NNN         NNN  EEEEEEEEEEEEEEE        TTT        AAA         AAA     CCCCCCCCCCCC  PPP
```

```
                                          L 11
**FILE**ID**NET




NN      NN  EEEEEEEEEE  TTTTTTTTTT
NN      NN  EEEEEEEEEE  TTTTTTTTTT
NN      NN  EE              TT
NN      NN  EE              TT
NNNN    NN  EE              TT
NNNN    NN  EE              TT
NN  NN  NN  EEEEEEEE        TT
NN  NN  NN  EEEEEEEE        TT
NN    NNNN  EE              TT
NN    NNNN  EE              TT
NN      NN  EE              TT
NN      NN  EE              TT            ....
NN      NN  EEEEEEEEEE      TT            ....
NN      NN  EEEEEEEEEE      TT            ....
                                          ....

LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
!
! Version:      'V04-000'
!
!****************************************************************************
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!****************************************************************************
!
!++
!
! NMAHEAD.B32
!
!       Define $EQULST macro to make library from the NMALIBRY.B32 file
!
!       This source is taken from the following source:
!--
!++
!
! UTLDEF.B32 - UTILITY DEFINITION MACROS FOR BLISS PROCESSING
! OF STARLET DEFINITION MACROS.
!
!--


!
! MACRO TO GENERATE EQULST CONSTRUCTS.
!
MACRO
        $EQULST(P,G,I,S)[A]=
            %NAME(P,GET1ST_ A) =
                %IF NUL2ND_ A
                %THEN (I) + %COUNT*(S)  ! ASSUMES I, S ALWAYS GENERATED BY CONVERSION PROGRAM
                %ELSE GET2ND_ A
                %FI %,

        GET1ST_(A,B)=
            A %,
        GET2ND_(A,B)=
            B %,        ! KNOWN NON-NULL
```

```
; M 0058  0             NUL2ND (A,B)=
;   0059  0                  %NULL(B) %;
;   0060  0
;   0061  0       !
;   0062  0       !      End of NMAHEAD
;   0063  0       !
```

```
! ***********************************************************************************************************************
! Created 15-SEP-1984 23:06:10  by  VAX-11 SDL V2.0        Source: 15-SEP-1984 22:47:42 _$255$DUA28:[NETACP.SRC]NETC
! ***********************************************************************************************************************


!*** MODULE CNR ***
literal CNR$C_SEM_BIT = 0;                 !  Type = bit
literal CNR$C_SEM_B = 1;                   !  Type = byte
literal CNR$C_SEM_W = 2;                   !  Type = word
literal CNR$C_SEM_L = 3;                   !  Type = longword
literal CNR$C_SEM_STR = 4;                 !  Type = string descriptor
!
!  Define field access control
!
literal CNR$C_ACC_RW = 0;                  !  General read/write
literal CNR$C_ACC_RO = 1;                  !  Read only
literal CNR$C_ACC_R = 1;                   !  Read only
literal CNR$C_ACC_WO = 2;                  !  Write only (for passwords, etc)
literal CNR$C_ACC_W = 2;                   !  Write only (for passwords, etc)
literal CNR$C_ACC_CW = 3;                  !  Conditionally writable
literal CNR$C_ACC_C = 3;                   !  Conditionally writable
literal CNR$C_ACC_ER = 4;                  !  External read only (e.g., if from QIO)
literal CNR$C_ACC_E = 4;                   !  External read only (e.g., if from QIO)
literal CNR$C_ACC_NE = 5;                  !  No external read or write access
literal CNR$C_ACC_N = 5;                   !  No external read or write access
!
!  Define string parse table i.d.'s
!
literal CNR$C_SEM_T = 0;                   !  Transparent - all characters are legal
literal CNR$C_SEM_A = 1;                   !  Upper case alpha or numerics only
literal CNR$C_SEM_F = 2;                   !  Parse string as if file specification
literal CNR$S_CNRDEF = 4;
macro CNR$V_SEM_OFF = 0,0,8,0 %;
literal CNR$S_SEM_OFF = 8;                 !  Byte offset from top of CNF to field
macro CNR$V_SEM_TYP = 0,8,3,0 %;
literal CNR$S_SEM_TYP = 3;                 !  Field type (bit,string,byte,word etc)
macro CNR$V_SEM_ACC = 0,11,3,0 %;
literal CNR$S_SEM_ACC = 3;                 !  Field access control
macro CNR$V_SEM_RT = 0,14,1,0 %;           !  "Field" is actually an index of a routine to call
macro CNR$V_SEM_Z = 0,15,1,0 %;            !  Set if field may be zero
macro CNR$V_SEM_MAX = 0,16,16,0 %;
literal CNR$S_SEM_MAX = 16;                !  Max value byte or word may be assigned
macro CNR$[illegible]SEM_SMX = 0,16,12,0 %;
literal CNR$S_SEM_SMX = 12;                !  Field to store max size string
macro CNR$V_SEM_TAB = 0,28,4,0 %;
literal CNR$S_SEM_TAB = 4;                 !  Holds i.d. of string parse table
!
!  Define CNF$x_SEM_TYP values
!
literal CNR$C_MAX_INX = 95;                !  Maximum field index possible (0 indexed => 96 indexes)
literal CNR$K_LENGTH = 680;                !  Structure size
literal CNR$C_LENGTH = 680;                !  Structure size
! F         SEM_TAB,L,4*CNR$C_MAX_INX       /* Semantic table
! -also see CNF$L_MASK definition
!
!   The following defines the format of each entry in the semantic table
!
```

```
0121  0     literal CNR$S_CNRDEF1 = 680;
0122  0     macro CNR$L_FLINK = 0,0,32,0 %;              ! Forward link
0123  0     macro CNR$L_COLBTE = 0,0,32,0 %;             ! Pointer to the collating tree entry for NDI CNR
0124  0     macro CNR$L_BLINK = 4,0,32,0 %;              ! Backward link
0125  0     macro CNR$L_NAMEBTE = 4,0,32,0 %;            ! Pointer to the name tree entry for NDI CNR
0126  0     macro CNR$W_SIZE = 8,0,16,0 %;               ! Block size
0127  0     macro CNR$B_TYPE = 10,0,8,0 %;               ! Block type (one of the NFB$C_DB_.... codes)
0128  0     macro CNR$B_FLG = 11,0,8,0 %;                ! Flag bits
0129  0     macro CNR$W_SIZ_CNF = 12,0,16,0 %;           ! Size of associated CNF without any string storage
0130  0     macro CNR$W_MAX_INX = 14,0,16,0 %;           ! Maximum field index defined for this database
0131  0     macro CNR$L_FLD_LOCK = 16,0,32,0 %;          ! Storage for bit id of conditional write gate
0132  0     macro CNR$L_FLD_COLL = 20,0,32,0 %;          ! Storage for collating bit i.d.
0133  0     macro CNR$L_ACT_QIO = 24,0,32,0 %;           ! Ptr to QIO preprocessor for this database
0134  0     macro CNR$L_ACT_SHOW = 28,0,32,0 %;          ! Ptr to "show" QIO to a specific CNF
0135  0     macro CNR$L_ACT_DFLT = 32,0,32,0 %;          ! Ptr to "defaulting" action routine
0136  0     macro CNR$L_ACT_INSERT = 36,0,32,0 %;        ! Ptr to CNF "pre-insert" action routine
0137  0     macro CNR$L_ACT_DELETE = 40,0,32,0 %;        ! Ptr to CNF "mark-for-delete" action routine
0138  0     macro CNR$L_ACT_REMOVE = 44,0,32,0 %;        ! Ptr to CNF "post-remove" action routine
0139  0     macro CNR$L_SCANNER = 48,0,32,0 %;           ! Ptr to CNF scanner
0140  0     macro CNR$L_INSERT = 52,0,32,0 %;            ! Ptr to CNF real insertion routine
0141  0     macro CNR$L_SPCSCAN = 56,0,32,0 %;           ! Ptr to CNF special scan routine
0142  0     macro CNR$L_VEC_ACT = 60,0,0,0 %;
0143  0     literal CNR$S_VEC_ACT = 64;                  ! Vector of action routine pointers
0144  0     macro CNR$L_END_ACT = 124,0,32,0 %;          ! Mark the end of the vector
0145  0     macro CNR$L_VEC_MAND = 128,0,0,0 %;
0146  0     literal CNR$S_VEC_MAND = 96;                 ! Vector of mandatory field i.d.'s
0147  0     macro CNR$L_END_MAND = 224,0,32,0 %;         !
0148  0     macro CNR$L_VEC_UNIQ = 228,0,0,0 %;
0149  0     literal CNR$S_VEC_UNIQ = 64;                 ! Vector of i.d.'s of fields required to be
0150  0     macro CNR$L_END_UNIQ = 292,0,32,0 %;         ! unique
0151  0     macro CNR$L_SEM_TAB = 296,0,32,0 %;          ! Semantic table -- 4 bytes for each of 96 indexes
0152  0     macro CNR$L_SEM_TABLE = 296,0,0,0 %;
0153  0     literal CNR$S_SEM_TABLE = 384;               ! ...synonym to reserve the space...
0154  0
0155  0     !*** MODULE CNF ***
0156  0     !
0157  0     !   Configuration Data Block (CNF)
0158  0     !
0159  0     !   This is a general block structure used to carry a sub-block in the
0160  0     !   configuration data base of the NETACP.  The  CNF  and sub-block
0161  0     !   semantics for each component type are store in the associate CNR
0162  0     !   described above.
0163  0     !
0164  0     literal CNF$M_FLG_CNR = 1;
0165  0     literal CNF$M_FLG_DELETE = 2;
0166  0     literal CNF$M_FLG_ACP = 4;
0167  0     literal CNF$M_FLG_NOEXT = 8;
0168  0     literal CNF$M_FLG_MRK1 = 16;
0169  0     literal CNF$M_FLG_MRK2 = 32;
0170  0     literal CNF$M_FLG_MRK3 = 64;
0171  0     literal CNF$K_LENGTH = 36;                   ! Structure size
0172  0     literal CNF$C_LENGTH = 36;                   ! Structure size
0173  0     ! F         MASK,L,CNR$C_MAX_INX/32          /* One bit in mask for each possible field.
0174  0     !  The bit is set while the field is active.
0175  0     literal CNF$S_CNFDEF = 36;
0176  0     macro CNF$L_FLINK = 0,0,32,0 %;              ! Forward link
0177  0     macro CNF$L_COLBTE = 0,0,32,0 %;             ! Pointer to the collating tree entry for NDI CNF
```

```
;    0178  0      macro CNF$L_BLINK = 4,0,32,0 %;           !  Backward link
;    0179  0      macro CNF$L_NAMEBTE = 4,0,32,0 %;         !  Pointer to the name tree entry for NDI CNF
;    0180  0      macro CNF$W_SIZE = 8,0,16,0 %;            !  Block size
;    0181  0      macro CNF$B_TYPE = 10,0,8,0 %;            !  Block type
;    0182  0      macro CNF$B_FLG = 11,0,8,0 %;             !  Flags defined as follows:
;    0183  0      macro CNF$V_FLG_CNR = 11,0,1,0 %;         !  Block is actually a CNR
;    0184  0      macro CNF$V_FLG_DELETE = 11,1,1,0 %;      !  Block is a temporary CNF or marked for delete
;    0185  0      macro CNF$V_FLG_ACP = 11,2,1,0 %;         !  Block is a catch-all used by the ACP
;    0186  0      macro CNF$V_FLG_NOEXT = 11,3,1,0 %;       !  Block is used internally only. It is not to be
;    0187  0      macro CNF$V_FLG_MRK1 = 11,4,1,0 %;        !  Special flags with different meanings for each
;    0188  0      macro CNF$V_FLG_MRK2 = 11,5,1,0 %;        !  database. These flags are defined locally in module
;    0189  0      macro CNF$V_FLG_MRK3 = 11,6,1,0 %;        !  NETCNFACT.MAR.
;    0190  0      !  displayed to the "external" world, i.e., above the
;    0191  0      !  $QIO interface.
;    0192  0      macro CNF$W_OFF_FREE = 12,0,16,0 %;       !  Self-relative byte offset to free storage
;    0193  0      macro CNF$W_SIZ_FREE = 14,0,16,0 %;       !  Bytes left in CNF free storage
;    0194  0      macro CNF$W_SIZ_USED = 16,0,16,0 %;       !  Number of bytes used for storing strings
;    0195  0      macro CNF$W_ID = 18,0,16,0 %;             !  Database dependent indentification data
;    0196  0      macro CNF$W_BOOLEAN = 20,0,16,0 %;        !  Storage for values of parameters of type "bit"
;    0197  0      macro CNF$L_MASK = 24,0,0,0 %;
;    0198  0      literal CNF$S_MASK = 12;                  ! see CNR$C_MAX_INX definition
;    0199  0
;    0200  0      !*** MODULE NDI ***
;    0201  0      !
;    0202  0      !  REMOTE NODE INFORMATION
;    0203  0      !
;    0204  0      !
;    0205  0      !         The following are commonly defined for all nodes
;    0206  0      !
;    0207  0      literal NDI$K_LENGTH = 108;               !  Structure size
;    0208  0      literal NDI$C_LENGTH = 108;               !  Structure size
;    0209  0      !  (used to down-line load a node which isn't
;    0210  0      !   up on the network yet)
;    0211  0      literal NDI$S_NDIDEF = 108;
;    0212  0      macro NDI$W_ADD = 0,0,16,0 %;             !  Node address - zero if NDI is for local node
;    0213  0      macro NDI$W_CTI = 2,0,16,0 %;             !  Counter timer (units = sec)
;    0214  0      macro NDI$L_CTA = 4,0,32,0 %;             !  Abslute due timer for counters to be logged
;    0215  0      macro NDI$L_S_NNA = 8,0,32,0 %;           !  Name
;    0216  0      !
;    0217  0      !         The following are defined for some, but not most, nodes
;    0218  0      !
;    0219  0      macro NDI$L_S_NLI = 12,0,32,0 %;          !  Line used if NDI is a "loopback" node
;    0220  0      macro NDI$L_S_PUS = 16,0,32,0 %;          !  Priv user id
;    0221  0      macro NDI$L_S_PAC = 20,0,32,0 %;          !  Priv account
;    0222  0      macro NDI$L_S_PPW = 24,0,32,0 %;          !  Priv password
;    0223  0      macro NDI$L_S_NUS = 28,0,32,0 %;          !  NonPriv user id
;    0224  0      macro NDI$L_S_NAC = 32,0,32,0 %;          !  NonPriv account
;    0225  0      macro NDI$L_S_NPW = 36,0,32,0 %;          !  NonPriv psw
;    0226  0      macro NDI$L_S_RPA = 40,0,32,0 %;          !  Receive password
;    0227  0      macro NDI$L_S_TPA = 44,0,32,0 %;          !  Transmit password
;    0228  0      macro NDI$B_ACC = 48,0,8,0 %;             !  Access switch (inbound,outbound,etc)
;    0229  0      macro NDI$B_PRX = 49,0,8,0 %;             !  Proxy access switch (inbound, outbound, etc)
;    0230  0      macro NDI$B_SNV = 50,0,8,0 %;             !  System node version
;    0231  0      !
;    0232  0      !         The following are for nodes to be downline-loaded or upline-dumped
;    0233  0      !
;    0234  0      macro NDI$B_SDV = 53,0,8,0 %;             !  Service device type
```

```
0235  0      macro NDI$B_CPU = 54,0,8,0 %;              ! CPU type
0236  0      macro NDI$B_STY = 55,0,8,0 %;              ! Software type
0237  0      macro NDI$W_IHO = 56,0,16,0 %;             ! Host address (input)
0238  0      macro NDI$W_OHO = 58,0,16,0 %;             ! Host address (output)
0239  0      macro NDI$L_DAD = 60,0,32,0 %;             ! Dump address
0240  0      macro NDI$L_DCT = 64,0,32,0 %;             ! Dump count
0241  0      macro NDI$L_S_SLI = 68,0,32,0 %;           ! Service line
0242  0      macro NDI$L_S_SPA = 72,0,32,0 %;           ! Service password
0243  0      macro NDI$L_S_LOA = 76,0,32,0 %;           ! Load file
0244  0      macro NDI$L_S_SLO = 80,0,32,0 %;           ! Secondary loader
0245  0      macro NDI$L_S_TLO = 84,0,32,0 %;           ! Tertiary loader
0246  0      macro NDI$L_S_SID = 88,0,32,0 %;           ! Software ID
0247  0      macro NDI$L_S_DUM = 92,0,32,0 %;           ! Dump file
0248  0      macro NDI$L_S_SDU = 96,0,32,0 %;           ! Secondary dumper
0249  0      macro NDI$L_S_DFL = 100,0,32,0 %;          ! Diagnostic load file
0250  0      macro NDI$L_S_HWA = 104,0,32,0 %;          ! NI hardware address for node
0251  0
0252  0      !*** MODULE LNI ***
0253  0      !
0254  0      !  LOCAL NODE INFORMATION
0255  0      !
0256  0      !
0257  0      !         Define local node states
0258  0      !
0259  0      literal LNI$C_STA_ON = 0;                  ! Node available for general use
0260  0      literal LNI$C_STA_OFF = 1;                 ! Node shutting down, no connects allowed
0261  0      literal LNI$C_STA_SHUT = 2;                ! No new connects allowed - shutting down
0262  0      literal LNI$C_STA_RSTR = 3;                ! Node available for outbound connects only
0263  0      literal LNI$C_STA_INIT = 4;                ! State used for ACP initialization
0264  0      !
0265  0      !         Define the CNF structure
0266  0      !
0267  0      literal LNI$K_LENGTH = 80;                 ! Structure size
0268  0      literal LNI$C_LENGTH = 80;                 ! Structure size
0269  0      literal LNI$S_LNIDEF = 80;
0270  0      macro LNI$W_ADD = 0,0,16,0 %;              ! Node address
0271  0      macro LNI$B_STA = 2,0,8,0 %;               ! State
0272  0      macro LNI$B_ETY = 3,0,8,0 %;               ! Local node type
0273  0      macro LNI$W_MLK = 4,0,16,0 %;              ! Maximum links allowed
0274  0      macro LNI$W_MAD = 6,0,16,0 %;              ! Maximum node address
0275  0      macro LNI$W_MBU = 8,0,16,0 %;              ! Maximum transport buffers
0276  0      macro LNI$W_MCO = 10,0,16,0 %;             ! Maximum cost
0277  0      macro LNI$B_MHO = 12,0,8,0 %;              ! Maximum hops
0278  0      macro LNI$B_MVI = 13,0,8,0 %;              ! Maximum visits
0279  0      macro LNI$B_MLN = 14,0,8,0 %;              ! Maximum circuits (used to be called lines)
0280  0      macro LNI$B_LPD = 15,0,8,0 %;              ! Default LOOP data
0281  0      macro LNI$W_LPC = 16,0,16,0 %;             ! Default LOOP count
0282  0      macro LNI$W_LPL = 18,0,16,0 %;             ! Default LOOP length
0283  0      macro LNI$B_LPH = 20,0,8,0 %;              ! Default LOOP help type
0284  0      macro LNI$W_BUS = 22,0,16,0 %;             ! Transport forwarding buffer size
0285  0      !  (maximum size that we will receive and forward)
0286  0      macro LNI$W_SBS = 24,0,16,0 %;             ! Transport segment buffer size
0287  0      !  (maximum size that we will transmit)
0288  0      macro LNI$W_RSI = 26,0,16,0 %;             ! Routine supression interval (units = sec)
0289  0      macro LNI$W_IAT = 28,0,16,0 %;             ! Inactivity timer (units = sec)
0290  0      macro LNI$W_ITI = 30,0,16,0 %;             ! Incoming timer (units = sec)
0291  0      macro LNI$W_OTI = 32,0,16,0 %;             ! Outgoing timer (units = sec)
```

```
;   0     macro LNI$W_RTI = 34,0,16,0 %;           !  Routing timer (units = sec)
;   0     macro LNI$W_BRT = 36,0,16,0 %;           !  Broadcast routing timer (units = sec)
;   0     macro LNI$W_MBE = 38,0,16,0 %;           !  Maximum broadcast endnodes
;   0     macro LNI$W_MBR = 40,0,16,0 %;           !  Maximum broadcast routers
;   0     macro LNI$B_DFA = 42,0,8,0 %;            !  Delay factor
;   0     macro LNI$B_DWE = 43,0,8,0 %;            !  Delay weight
;   0     macro LNI$B_RFA = 44,0,8,0 %;            !  Retransmit factor
;   0     macro LNI$B_DAC = 45,0,8,0 %;            !  Default access (inbound,outbound,etc)
;   0     macro LNI$B_DPX = 46,0,8,0 %;            !  Default proxy access (inbound,outbound,etc)
;   0     macro LNI$W_PIQ = 47,0,16,0 %;           !  Pipeline quota
;   0     macro LNI$L_SAD = 50,0,32,0 %;           !  X.25 sub-address range
;   0     macro LNI$B_MAR = 54,0,8,0 %;            !  Maximum areas
;   0     macro LNI$B_AMH = 55,0,8,0 %;            !  Area maximum hops
;   0     macro LNI$W_AMC = 56,0,16,0 %;           !  Area maximum cost
;   0     macro LNI$W_ALI = 58,0,16,0 %;           !  Alias local address (cluster node address)
;   0     macro LNI$L_S_NAM = 60,0,32,0 %;         !  Node name
;   0     macro LNI$L_S_IDE = 64,0,32,0 %;         !  System identification
;   0     macro LNI$L_S_NVE = 68,0,32,0 %;         !  NSP version
;   0     macro LNI$L_S_RVE = 72,0,32,0 %;         !  Routing version
;   0     macro LNI$L_S_MVE = 76,0,32,0 %;         !  Network Management version
;   0
;   0     !*** MODULE LLI ***
;   0     !
;   0     !   LOGICAL LINK INFORMATION
;   0     !
;   0     !
;   0     !         The following are commonly defined for all node counter blocks
;   0     !
;   0     !
;   0     !   Node Counter Block  (NDC)
;   0     !
;   0     !   The following data block is used to maintain statistics for each node in the
;   0     !   network.  A hash of these structures is contained in NETACP.
;   0     !
;   0     literal NDC$K_LENGTH = 28;               !  Structure size
;   0     literal NDC$C_LENGTH = 28;               !  Structure size
;   0     literal NDC$S_NDCDEF = 28;
;   0     macro NDC$L_ABS_TIM = 0,0,32,0 %;        !  Absolute time counter block was last zeroed
;   0     !
;   0     !       Network services layer counters
;   0     !
;   0     macro NDC$W_RSE = 4,0,16,0 %;            !  Trasmitted connect rejects due to resource errors
;   0     macro NDC$W_RTO = 6,0,16,0 %;            !  Response timeouts
;   0     macro NDC$W_CRC = 8,0,16,0 %;            !  Connects received
;   0     macro NDC$W_CSN = 10,0,16,0 %;           !  Connects sent
;   0     macro NDC$L_BRC = 12,0,32,0 %;           !  Bytes received
;   0     macro NDC$L_BSN = 16,0,32,0 %;           !  Bytes sent
;   0     macro NDC$L_PRC = 20,0,32,0 %;           !  Packets received
;   0     macro NDC$L_PSN = 24,0,32,0 %;           !  Packets sent
;   0     !
;   0     !         The following are commonly defined for all logical links
;   0     !
;   0     literal LLI$K_LENGTH = 64;               !  Structure size
;   0     literal LLI$C_LENGTH = 64;               !  Structure size
;   0     literal LLI$S_LLIDEF = 64;
;   0     macro LLI$L_XWB = 0,0,32,0 %;            !  Pointer to XWB
;   0     macro LLI$W_LLN = 4,0,16,0 %;            !  Local link number
;    0349  0      macro LLI$W_PNA = 6,0,16,0 %;                    !  Partner's node address
;    0350  0      !
;    0351  0      !       Network services layer Running Total counters
;    0352  0      !
;    0353  0      macro LLI$Z_NDC_RT = 8,0,0,1 %;
;    0354  0      literal LLI$S_NDC_RT = 28;                       !  Running total counters
;    0355  0      !
;    0356  0      !       Network services layer Last Zeroed counters
;    0357  0      !
;    0358  0      macro LLI$Z_NDC_LZ = 36,0,0,1 %;
;    0359  0      literal LLI$S_NDC_LZ = 28;                       !  Last zeroed counters
;    0360  0
;    0361  0      !*** MODULE OBI ***
;    0362  0      !
;    0363  0      !  NETWORK OBJECT INFORMATION
;    0364  0      !
;    0365  0      !
;    0366  0      !        Define CNF storage
;    0367  0      !
;    0368  0      literal OBI$K_LENGTH = 40;                       !  Structure size
;    0369  0      literal OBI$C_LENGTH = 40;                       !  Structure size
;    0370  0      literal OBI$S_OBIDEF = 40;
;    0371  0      macro OBI$B_NUM = 0,0,8,0 %;                     !  Object number
;    0372  0      macro OBI$B_PRX = 1,0,8,0 %;                     !  Proxy login switch (inbound, outbound, etc)
;    0373  0      macro OBI$W_CHN = 2,0,16,0 %;                    !  Channel over which declaration occurred
;    0374  0      macro OBI$L_LPR = 4,0,32,0 %;                    !  Low order privilege mask
;    0375  0      macro OBI$L_HPR = 8,0,32,0 %;                    !  High order privilege mask
;    0376  0      macro OBI$L_UCB = 12,0,32,0 %;                   !  Associated NET UCB if declared task
;    0377  0      macro OBI$L_PID = 16,0,32,0 %;                   !  Associated process i.d. if declared task
;    0378  0      macro OBI$L_S_NAM = 20,0,32,0 %;                 !  Name
;    0379  0      macro OBI$L_S_FID = 24,0,32,0 %;                 !  File id
;    0380  0      macro OBI$L_S_USR = 28,0,32,0 %;                 !  User id
;    0381  0      macro OBI$L_S_ACC = 32,0,32,0 %;                 !  Account
;    0382  0      macro OBI$L_S_PSW = 36,0,32,0 %;                 !  Password
;    0383  0
;    0384  0      !*** MODULE CRI ***
;    0385  0      !
;    0386  0      !  CIRCUIT INFORMATION
;    0387  0      !
;    0388  0      !
;    0389  0      !        Define CNF storage for fields used internally
;    0390  0      !
;    0391  0      literal CRI$K_LENGTH = 65;                       !  Structure size
;    0392  0      literal CRI$C_LENGTH = 65;                       !  Structure size
;    0393  0      literal CRI$S_CRIDEF = 65;
;    0394  0      macro CRI$L_S_NAM = 0,0,32,0 %;                  !  Circuit name
;    0395  0      macro CRI$L_OWPID = 4,0,32,0 %;                  !  PID of temporary owner of line in service state
;    0396  0      macro CRI$L_CTA = 8,0,32,0 %;                    !  Absolute due time for counter logging
;    0397  0      !
;    0398  0      !        Define CNF storage for fields defined by the NICE protocol
;    0399  0      !
;    0400  0      macro CRI$B_STA = 12,0,8,0 %;                    !  State
;    0401  0      macro CRI$B_CHN = 13,0,8,0 %;                    !  X.25 Channel No.
;    0402  0      macro CRI$W_LCT = 14,0,16,0 %;                   !  Counter timer
;    0403  0      macro CRI$L_S_LOO = 16,0,32,0 %;                 !  Loopback name
;    0404  0      macro CRI$W_HET = 20,0,16,0 %;                   !  Hello timer
;    0405  0      macro CRI$B_COS = 24,0,8,0 %;                    !  Cost
;     0406  0        macro CRI$B_MRC = 25,0,8,0 %;              ! Maximum recalls
;     0407  0        macro CRI$W_RCT = 26,0,16,0 %;             ! Recall timer
;     0408  0        macro CRI$L_S_NUM = 28,0,32,0 %;           ! Call Number
;     0409  0        macro CRI$B_POL = 32,0,8,0 %;              ! Polling state
;     0410  0        macro CRI$B_PLS = 33,0,8,0 %;              ! Polling substate
;     0411  0        macro CRI$B_TYP = 34,0,8,0 %;              ! Type
;     0412  0        macro CRI$L_S_DTE = 36,0,32,0 %;           ! DTE
;     0413  0        macro CRI$W_MBL = 40,0,16,0 %;             ! Maximum block
;     0414  0        macro CRI$B_MWI = 42,0,8,0 %;              ! Maximum window
;     0415  0        macro CRI$B_TRI = 43,0,8,0 %;              ! Tributary
;     0416  0        macro CRI$W_BBT = 44,0,16,0 %;             ! Babble timer
;     0417  0        macro CRI$W_TRT = 46,0,16,0 %;             ! Transmit timer
;     0418  0        macro CRI$W_CHN = 48,0,16,0 %;             ! X.25 channel
;     0419  0        macro CRI$B_USE = 50,0,8,0 %;              ! X.25 Usage
;     0420  0        macro CRI$B_MRB = 51,0,8,0 %;              ! Maximum receive buffers
;     0421  0        macro CRI$B_MTR = 52,0,8,0 %;              ! Maximum transmits
;     0422  0        macro CRI$B_ACB = 53,0,8,0 %;              ! Active base
;     0423  0        macro CRI$B_ACI = 54,0,8,0 %;              ! Active increment
;     0424  0        macro CRI$B_IAB = 55,0,8,0 %;              ! Inactive base
;     0425  0        macro CRI$B_IAI = 56,0,8,0 %;              ! Inactive increment
;     0426  0        macro CRI$B_IAT = 57,0,8,0 %;              ! Inactive threshold
;     0427  0        macro CRI$B_DYB = 58,0,8,0 %;              ! Dying base
;     0428  0        macro CRI$B_DYI = 59,0,8,0 %;              ! Dying increment
;     0429  0        macro CRI$B_DYT = 60,0,8,0 %;              ! Dying threshold
;     0430  0        macro CRI$B_DTH = 61,0,8,0 %;              ! Dead threshold
;     0431  0        macro CRI$B_XPT = 62,0,8,0 %;              ! Transport protocol
;     0432  0        macro CRI$B_MRT = 63,0,8,0 %;              ! Maximum routers on NI
;     0433  0        macro CRI$B_RPR = 64,0,8,0 %;              ! Router priority on NI
;     0434  0
;     0435  0        !*** MODULE PLI ***
;     0436  0        !
;     0437  0        !  PHYSICAL LINE INFORMATION
;     0438  0        !
;     0439  0        !
;     0440  0        !       Define CNF storage for fields used internally
;     0441  0        !
;     0442  0        literal PLI$K_LENGTH = 46;                 ! Structure size
;     0443  0        literal PLI$C_LENGTH = 46;                 ! Structure size
;     0444  0        literal PLI$S_PLIDEF = 46;
;     0445  0        macro PLI$L_S_NAM = 0,0,32,0 %;            ! Line name
;     0446  0        macro PLI$L_CTA = 4,0,32,0 %;              ! Absolute due time for counter logging
;     0447  0        !
;     0448  0        !       Define CNF storage for fields defined by the NICE protocol
;     0449  0        !
;     0450  0        macro PLI$B_BFN = 8,0,8,0 %;               ! Number of buffers in receive pool
;     0451  0        macro PLI$B_STA = 9,0,8,0 %;               ! State
;     0452  0        macro PLI$B_SUB = 10,0,8,0 %;              ! Substate
;     0453  0        macro PLI$B_PRO = 11,0,8,0 %;              ! Protocol
;     0454  0        macro PLI$W_LCT = 12,0,16,0 %;             ! Counter timer
;     0455  0        macro PLI$W_STI = 14,0,16,0 %;             ! Service timer
;     0456  0        macro PLI$W_HTI = 16,0,16,0 %;             ! Holdback timer
;     0457  0        macro PLI$W_RTT = 18,0,16,0 %;             ! Retransmit timer
;     0458  0        macro PLI$W_MBL = 20,0,16,0 %;             ! Maximum block
;     0459  0        macro PLI$B_MRT = 22,0,8,0 %;              ! Maximum retransmits
;     0460  0        macro PLI$B_MWI = 23,0,8,0 %;              ! Maximum window
;     0461  0        macro PLI$W_SLT = 24,0,16,0 %;             ! Scheduling timer
;     0462  0        macro PLI$W_DDT = 26,0,16,0 %;             ! Dead timer
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0       macro PLI$W_DLT = 28,0,16,0 %;           !   Delay timer
0       macro PLI$W_SRT = 30,0,16,0 %;           !   Stream timer
0       macro PLI$L_S_HWA = 32,0,32,0 %;         !   NI hardware address [READ ONLY]
0       macro PLI$L_S_MCD = 36,0,32,0 %;         !   X.25 KMX microcode dump file [WRITE ONLY - ONE SHOT]
0       macro PLI$W_EPT = 40,0,16,0 %;           !   Ethernet protocol type
0       macro PLI$B_MOD = 42,0,8,0 %;            !   X.25 mode (DTE, DCE, etc.)
0       macro PLI$W_BFS = 44,0,16,0 %;           !   Buffer size to override executor buffer size
0
0       !*** MODULE EFI ***
0       !
0       !  EVENT LOGGING FILTER INFORMATION
0       !
0       !
0       !         Define the CNF structure
0       !
0       literal EFI$K_LENGTH = 28;               !   Structure size
0       literal EFI$C_LENGTH = 28;               !   Structure size
0       literal EFI$S_EFIDEF = 28;
0       macro EFI$W_SIN = 0,0,16,0 %;            !   Sink node address
0       macro EFI$W_SP1 = 2,0,16,0 %;            !   Spare
0       macro EFI$L_B1 = 4,0,32,0 %;             !   For user defined use
0       macro EFI$L_B2 = 8,0,32,0 %;             !   For user defined use
0       macro EFI$L_S_EVE = 12,0,32,0 %;         !   Event list
0       macro EFI$L_S_SB1 = 16,0,32,0 %;         !   For user defined use
0       macro EFI$L_S_SB2 = 20,0,32,0 %;         !   For user defined use
0       macro EFI$L_S_SB3 = 24,0,32,0 %;         !   For user defined use
0
0       !*** MODULE ESI ***
0       !
0       !  EVENT LOGGING SINK INFORMATION
0       !
0       !
0       !         Define logging sink states
0       !
0       literal ESI$C_STA_ON = 0;                !   Logging is on
0       literal ESI$C_STA_OFF = 1;               !   Logging is off
0       literal ESI$C_STA_HLD = 2;               !   Hold events
0       !
0       !     Define logging sink types
0       !
0       literal ESI$C_SNK_CON = 1;               !   Console
0       literal ESI$C_SNK_FIL = 2;               !   File
0       literal ESI$C_SNK_MON = 3;               !   Monitor
0       !
0       !         Define the CNF structure
0       !
0       literal ESI$K_LENGTH = 28;               !   Structure size
0       literal ESI$C_LENGTH = 28;               !   Structure size
0       literal ESI$S_ESIDEF = 28;
0       macro ESI$B_SNK = 0,0,8,0 %;             !   Sink type
0       macro ESI$B_STA = 1,0,8,0 %;             !   Sink state
0       macro ESI$W_SP1 = 2,0,16,0 %;            !   Spare
0       macro ESI$L_B1 = 4,0,32,0 %;             !   For user defined use
0       macro ESI$L_B2 = 8,0,32,0 %;             !   For user defined use
0       macro ESI$L_S_LNA = 12,0,32,0 %;         !   Sink name
0       macro ESI$L_S_SB1 = 16,0,32,0 %;         !   For user defined use
0       macro ESI$L_S_SB2 = 20,0,32,0 %;         !   For user defined use
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;  0      macro ESI$L_S_SB3 = 24,0,32,0 %;          !  For user defined use
;  0
;  0      !*** MODULE SPI ***
;  0      !
;  0      !  NETWORK SERVER PROCESS INFORMATION
;  0      !
;  0      !
;  0      !         Define CNF storage
;  0      !
;  0      literal SPI$K_LENGTH = 32;                 !  Structure size
;  0      literal SPI$C_LENGTH = 32;                 !  Structure size
;  0      literal SPI$S_SPIDEF = 32;
;  0      macro SPI$L_PID = 0,0,32,0 %;              !  Server PID
;  0      macro SPI$L_IRP = 4,0,32,0 %;              !  IRP of waiting DECLSERV QIO. 0 if process active
;  0      macro SPI$W_RNA = 8,0,16,0 %;              !  Remote node address which initially started server
;  0      macro SPI$W_CHN = 10,0,16,0 %;             !  Channel associated with L_IRP (waiting DECLSERV)
;  0      macro SPI$L_S_ACS = 12,0,32,0 %;           !  ACS used initially to start server process
;  0      macro SPI$L_S_RID = 16,0,32,0 %;           !  Remote user ID which initially started server
;  0      macro SPI$L_S_SFI = 20,0,32,0 %;           !  Last (current) filespec given to server
;  0      macro SPI$L_S_NCB = 24,0,32,0 %;           !  Last (current) NCB given to server
;  0      macro SPI$L_S_PNM = 28,0,32,0 %;           !  Last (current) process name given to server
;  0
;  0      !*** MODULE WQE ***
;  0      !
;  0      !  Work Queue Elements (WQE) are used by the ACP to serialize and standardize
;  0      !  all schedulable but non-IRP oriented work.  Datalink state transition
;  0      !  control and events originating from ASTs are examples.
;  0      !
;  0      !  The WQE structure is depicted below.  The WQE$B_SUB field is used to
;  0      !  determine if any special processing is needed when the WQE is queued or
;  0      !  dequeued as follows:
;  0      !
;  0      literal WQE$C_SUB_BAS = 0;                 !  The WQE is the base of a list - NOTE low bit clear
;  0      !  for this SUB constant only!!!
;  0
;  0      literal WQE$C_SUB_ACP = 1;                 !  The WQE was spawned during normal internal ACP
;  0      !  activity, e.g., during IO$_ACPCONTROL Qio activity.
;  0      !  No special action is required when it is queued.
;  0      !  When it is dequeued, dispatch directly to the action
;  0      !  routine which responsible for deallocating it.
;  0
;  0      literal WQE$C_SUB_AST = 3;                 !  The WQE is the consequence of a miscellaneous AST,
;  0      !  e.g., a datalink Qio AST.  If its the first entry
;  0      !  queued then $WAKE the ACP.  When it is dequeued,
;  0      !  dispatch directly to the action routine -  which is
;  0      !  responsible for deallocating it.
;  0
;  0      literal WQE$C_SUB_MBX = 5;                 !  The WQE is the consequence of a mailbox read AST. If
;  0      !  it is the first element queued then $WAKE the ACP.
;  0      !  When it is dequeued, it is sent to the mailbox
;  0      !  servicing routine - which permenantly owns the WQE.
;  0
;  0      literal WQE$C_SUB_TIM = 7;                 !  The WQE is the consequence of a timer AST. If it is
;  0      !  the first element queued then $WAKE the ACP.  When
;  0      !  dequeued, another VMS timer must be set if there are
;  0      !  any more elements in the WQE timer queue.
;  0      literal WQE$C_QUAL_DLL = 1;                !  A data link event - REQIDT is the LPD$W_PTH value
;    0577  0      literal WQE$C_QUAL_RTG = 2;              !  An ACP routing event - REQIDT is always zero
;    0578  0      literal WQE$C_QUAL_CTM = 3;              !  A counter timer event - REQIDT identifies data base
;    0579  0      literal WQE$C_QUAL_ACT = 4;              !  The ACP active timer
;    0580  0      literal WQE$K_LENGTH = 36;               !  Structure size and begining of data area
;    0581  0      literal WQE$C_LENGTH = 36;               !  Structure size and begining of data area
;    0582  0      literal WQE$S_WQEDEF = 36;
;    0583  0      macro WQE$L_FLINK = 0,0,32,0 %;          !  Queue forward link
;    0584  0      macro WQE$L_BLINK = 4,0,32,0 %;          !  Queue backward link
;    0585  0      macro WQE$W_SIZE = 8,0,16,0 %;           !  Bytes allocated for the WQE
;    0586  0      macro WQE$B_TYPE = 10,0,8,0 %;           !  Structure type code
;    0587  0      macro WQE$B_SUB = 11,0,8,0 %;            !  Structure sub-type code as follows:
;    0588  0      !
;    0589  0      macro WQE$L_ACTION = 12,0,32,0 %;        !  Action routine address
;    0590  0      macro WQE$L_PM1 = 16,0,32,0 %;           !  Action routine first parameter
;    0591  0      macro WQE$B_EVT = 16,0,8,0 %;            !  Event code - interpreted in the context of the
;    0592  0      !  QUAL field
;    0593  0      macro WQE$B_QUAL = 17,0,8,0 %;           !  REQIDT qualifier as follows:
;    0594  0      !
;    0595  0      macro WQE$W_REQIDT = 18,0,16,0 %;        !  Request identifier - interpreted in the context of
;    0596  0      !  the QUAL field.
;    0597  0      macro WQE$L_PM2 = 20,0,32,0 %;           !  Action routine second parameter
;    0598  0      macro WQE$L_EVL_PKT = 24,0,32,0 %;       !  Ptr to the packet header if the WQE is being used
;    0599  0      !  for event logging
;    0600  0      macro WQE$W_EVL_CODE = 28,0,16,0 %;      !  Event logging code if WQE is used for event logging
;    0601  0      macro WQE$B_EVL_DT1 = 30,0,8,0 %;        !  Event logging immediate data
;    0602  0      macro WQE$B_EVL_DT2 = 31,0,8,0 %;        !  Event logging immediate data
;    0603  0      macro WQE$W_ADJ_INX = 32,0,16,0 %;       !  Adjacency to which this WQE applies (0 if none)
;    0604  0      macro WQE$W_SPARE = 34,0,16,0 %;         !  SPARE WORD
;    0605  0
;    0606  0      !*** MODULE DLLQIO ***
;    0607  0      !
;    0608  0      !  DLLQIO  - Datalink $QIO parameter block
;    0609  0      !
;    0610  0      literal DLLQIO$K_LENGTH = 24;            !  Structure size
;    0611  0      literal DLLQIO$C_LENGTH = 24;            !  Structure size
;    0612  0      literal DLLQIO$S_DLLQIODEF = 24;
;    0613  0      macro DLLQIO$L_FUNC = 0,0,32,0 %;        !  Function code
;    0614  0      macro DLLQIO$L_P1 = 4,0,32,0 %;          !  QIO P1 parameter
;    0615  0      macro DLLQIO$L_P2 = 8,0,32,0 %;          !  QIO P2 parameter
;    0616  0      macro DLLQIO$L_P3 = 12,0,32,0 %;         !  QIO P3 parameter
;    0617  0      macro DLLQIO$L_P4 = 16,0,32,0 %;         !  QIO P4 parameter
;    0618  0      macro DLLQIO$L_P5 = 20,0,32,0 %;         !  QIO P5 parameter
;    0619  0
;    0620  0      !*** MODULE DEVTRN ***
;    0621  0      !
;    0622  0      !  DEVTRN - Device translation table
;    0623  0      !
;    0624  0      literal DEVTRN$C_DEV_UNK = 0;            !  Unknown device
;    0625  0      literal DEVTRN$C_DEV_DMC = 1;            !  DMC-11
;    0626  0      literal DEVTRN$C_DEV_PCL = 2;            !  PCL-11
;    0627  0      literal DEVTRN$C_DEV_DMF = 3;            !  DMF-32
;    0628  0      literal DEVTRN$C_DEV_CI = 4;             !  CI-780
;    0629  0      literal DEVTRN$C_DEV_DMP = 5;            !  DMP-11
;    0630  0      literal DEVTRN$C_DEV_DUP = 6;            !  DUP-11 (for X.25)
;    0631  0      literal DEVTRN$C_DEV_KMS = 7;            !  KMC-11 (for X.25)
;    0632  0      literal DEVTRN$C_DEV_X25 = 8;            !  X.25 datalink (datalink mapping)
;    0633  0      literal DEVTRN$C_DEV_UNA = 9;            !  DEUNA (Ethernet)
;    0634  0      literal DEVTRN$C_DEV_PPUNA = 10;         !  DEUNA operating in point-to-point mode
;    0635  0      !  (internal testing purposes only!)
;    0636  0      literal DEVTRN$K_LENGTH = 13;            !  Structure size
;    0637  0      literal DEVTRN$C_LENGTH = 13;            !  Structure size
;    0638  0      literal DEVTRN$M_MULTI = 1;
;    0639  0      literal DEVTRN$S_DEVTRNDEF = 13;
;    0640  0      macro DEVTRN$B_NETMAN = 0,0,8,0 %;       !  Count of Network Management device name
;    0641  0      macro DEVTRN$T_NETMAN = 1,0,0,0 %;
;    0642  0      literal DEVTRN$S_NETMAN = 5;             !  Network Management device name text
;    0643  0      macro DEVTRN$B_VMS = 6,0,8,0 %;          !  Count of VMS device name
;    0644  0      macro DEVTRN$T_VMS = 7,0,24,0 %;
;    0645  0      literal DEVTRN$S_VMS = 3;                !  VMS device name text
;    0646  0      macro DEVTRN$B_DEV = 10,0,8,0 %;         !  Device code
;    0647  0      !  Define device codes
;    0648  0      macro DEVTRN$B_PROT = 11,0,8,0 %;        !  Default device protocol (NMA$C_LINPR...)
;    0649  0      macro DEVTRN$B_CHAR = 12,0,8,0 %;        !  Device characteristics
;    0650  0      macro DEVTRN$V_MULTI = 12,0,1,0 %;       !  Multi-unit device
;    0651  0
;    0652  0      !*** MODULE NDB ***
;    0653  0      ! +
;    0654  0      !  NDB - DEFINE OPCOM MESSAGE CODES
;    0655  0      ! -
;    0656  0      !  Message codes for OPCOM
;    0657  0      literal NDB$C_MSG_START = 1;             !  DECnet starting
;    0658  0      literal NDB$C_MSG_SHUT = 2;              !  DECnet shutting down
```

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0     ! *********************************************************************************************************
0     ! Created 15-SEP-1984 23:06:24  by  VAX-11 SDL V2.0       Source: 15-SEP-1984 22:47:47 _$255$DUA28:[NETACP.SRC]NETN
0     ! *********************************************************************************************************
0
0
0     !*** MODULE RCB ***
0     literal RCB$M_LVL2 = 1;
0     literal RCB$M_ACT = 2;
0     literal RCB$C_CNT_SIZE = 12;                ! Number of bytes used for counters
0     literal RCB$K_LENGTH = 174;                 ! Structure size
0     literal RCB$C_LENGTH = 174;                 ! Structure size
0     !  an unspecified output adjacency (ETY=PH4 only)
0     literal RCB$S_RCBDEF = 174;
0     macro RCB$Q_IRP_FREE = 0,0,0,0 %;
0     literal RCB$S_IRP_FREE = 8;                 ! Listhead of free IRPs
0     macro RCB$W_SIZE = 8,0,16,0 %;              ! Bytes allocated for structure
0     macro RCB$B_TYPE = 10,0,8,0 %;              ! Structure type
0     macro RCB$B_STATUS = 11,0,8,0 %;            ! Status flags
0     macro RCB$V_LVL2 = 11,0,1,0 %;              ! True if we can use level 2 routing (AOA, etc)
0     macro RCB$V_ACT = 11,1,1,0 %;               ! (ROUTING LAYER BIT) Set if NETACP is considered active
0     !  False if we detect that we are an isolated area router
0     macro RCB$W_TRANS = 12,0,16,0 %;            ! Outstanding transaction count
0     macro RCB$W_ADDR = 14,0,16,0 %;             ! Local node address
0     macro RCB$L_AQB = 16,0,32,0 %;              ! Ptr to AQB
0     macro RCB$L_ACP_UCB = 20,0,32,0 %;          ! Ptr to Network ACP's UCB
0     macro RCB$L_PTR_JNX = 24,0,32,0 %;          ! Ptr to journal buffer
0     macro RCB$L_PTR_OA = 28,0,32,0 %;           ! Ptr to Output Adjacency vector
0     macro RCB$L_PTR_AOA = 32,0,32,0 %;          ! Ptr to Area Output Adjacency vector
0     macro RCB$L_PTR_LTB = 36,0,32,0 %;          ! Ptr to logical link table (dispatch vector)
0     macro RCB$L_PTR_LPD = 40,0,32,0 %;          ! Ptr to Logical Path Descriptor vector
0     macro RCB$L_PTR_ADJ = 44,0,32,0 %;          ! Pointer to vector of adjacency blocks (0 based)
0     macro RCB$L_PTR_TQE = 48,0,32,0 %;          ! Ptr to internal Timer Queue element
0     macro RCB$L_PTR_NDC = 52,0,32,0 %;          ! Ptr to Node Counters vector
0     macro RCB$L_PTR_DCS = 56,0,32,0 %;          ! Ptr to NETDRIVER's control storage
0     macro RCB$Q_LOC_RCV = 60,0,0,0 %;
0     literal RCB$S_LOC_RCV = 8;                  ! Receive listhead for "local" Datalink
0     macro RCB$Q_LOC_XMT = 68,0,0,0 %;
0     literal RCB$S_LOC_XMT = 8;                  ! Transmit listhead for "local" Datalink
0     macro RCB$Q_IRP_WAIT = 76,0,0,0 %;
0     literal RCB$S_IRP_WAIT = 8;                 ! Listhead of fork processes waiting for an IRP
0     macro RCB$W_MCOUNT = 84,0,16,0 %;           ! Mount count - includes current logical links plus 1
0     !  for the ACP reference
0     macro RCB$W_CUR_LNK = 86,0,16,0 %;          ! Current number of logical links
0     macro RCB$W_MAX_LNK = 88,0,16,0 %;          ! Max allowable logical links
0     macro RCB$W_MAX_ADDR = 90,0,16,0 %;         ! Max allowable node address
0     macro RCB$B_MAX_LPD = 92,0,8,0 %;           ! Max number of DLL LPDs
0     macro RCB$B_MAX_SNK = 93,0,8,0 %;           ! Max IRPs queueable to any sink queue
0     macro RCB$B_MAX_VISIT = 94,0,8,0 %;         ! Max nodes a packet may visit
0     macro RCB$B_INT_PTH = 95,0,8,0 %;           ! Index of path to intercept node: 0=>no intercept
0     macro RCB$B_ACT_DLL = 96,0,8,0 %;           ! Active data links
0     macro RCB$B_STI = 97,0,8,0 %;               ! Internal state
0     macro RCB$B_ECL_RFLW = 98,0,8,0 %;          ! ECL receiver pipeline quota (in packets)
0     macro RCB$B_ECL_RFA = 99,0,8,0 %;           ! ECL retransmit factor
0     macro RCB$B_ECL_DFA = 100,0,8,0 %;          ! ECL delay factor
0     macro RCB$B_ECL_DWE = 101,0,8,0 %;          ! ECL delay weight
0     macro RCB$B_ECL_DAC = 102,0,8,0 %;          ! ECL default access state
0     macro RCB$B_ECL_DPX = 103,0,8,0 %;          ! ECL default proxy access state
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;   0716  0       macro RCB$W_MAX_ADJ = 104,0,16,0 %;       !  Size of adjacency vector (PTR_ADJ), in entries
;   0717  0       macro RCB$W_MAX_RTG = 106,0,16,0 %;       !  Number of "routing destinations" (LPDs + BRAs)
;   0718  0       macro RCB$L_DLE_XWB = 108,0,32,0 %;       !  Linked list head for direct-circuit-access XWBs
;   0719  0       macro RCB$W_TIM_RSI = 112,0,16,0 %;       !  Min delay before next routing update in seconds
;   0720  0       macro RCB$W_TIM_RTI = 114,0,16,0 %;       !  Max time before next routing update in seconds
;   0721  0       macro RCB$W_TIM_IAT = 116,0,16,0 %;       !  Max logical link inactivity interval in seconds
;   0722  0       macro RCB$W_TIM_CNI = 118,0,16,0 %;       !  Max inbound connect interval in seconds
;   0723  0       macro RCB$W_TIM_CNO = 120,0,16,0 %;       !  Max outbound connect interval in seconds
;   0724  0       macro RCB$W_TIM_CTI = 122,0,16,0 %;       !  Sample interval in seconds
;   0725  0       macro RCB$W_ECLSEGSIZ = 124,0,16,0 %;     !  Default ECL data segment size (excludes header size)
;   0726  0       macro RCB$W_TOTBUFSIZ = 126,0,16,0 %;     !  Buffer size including NSP header + 6 bytes
;   0727  0       !  + CXB$C_OVERHEAD bytes for datalink overhead
;   0728  0       macro RCB$W_CUR_PKT = 128,0,16,0 %;       !  Current total IRPs
;   0729  0       macro RCB$W_MAX_PKT = 130,0,16,0 %;       !  Max total IRPs
;   0730  0       macro RCB$W_PKT_FREE = 132,0,16,0 %;      !  Packets left in Transmit pool
;   0731  0       macro RCB$W_PKT_PEAK = 134,0,16,0 %;      !  Peak number of packets used
;   0732  0       macro RCB$B_PKT_FAIL = 136,0,8,0 %;       !  Packet allocation failures (over packet quota)
;   0733  0       macro RCB$B_MEM_FAIL = 137,0,8,0 %;       !  Packet allocation failures (insufficent memory)
;   0734  0       macro RCB$B_ETY = 138,0,8,0 %;            !  Type of executor node (ADJ$C_PTY_xxx)
;   0735  0       macro RCB$B_HOMEAREA = 139,0,8,0 %;       !  Our home area number (only if area router)
;   0736  0       macro RCB$B_MAX_AREA = 140,0,8,0 %;       !  Max allowable area address
;   0737  0       macro RCB$W_ALIAS = 141,0,16,0 %;         !  Alias local address (0 if none)
;   0738  0       macro RCB$B_ACT_TIMER = 143,0,8,0 %;      !  ACP activity timer
;   0739  0       !
;   0740  0       !         Transport layer counters
;   0741  0       !
;   0742  0       macro RCB$L_ABS_TIM = 144,0,32,0 %;       !  Absolute time counters were last zeroed
;   0743  0       macro RCB$B_CNT_NOL = 148,0,8,0 %;        !  Node out-of-range packet loss
;   0744  0       macro RCB$B_CNT_1ST = 148,0,8,0 %;        !  First counter cell marker
;   0745  0       macro RCB$B_CNT_APL = 149,0,8,0 %;        !  Aged packet loss
;   0746  0       macro RCB$B_CNT_OPL = 150,0,8,0 %;        !  Oversized packet loss
;   0747  0       macro RCB$B_CNT_PFE = 151,0,8,0 %;        !  Packet format error
;   0748  0       macro RCB$B_CNT_RUL = 152,0,8,0 %;        !  Partial routing update loss
;   0749  0       macro RCB$B_CNT_VER = 153,0,8,0 %;        !  Verification rejects
;   0750  0       macro RCB$W_CNT_NUL = 154,0,16,0 %;       !  Node unreachable packet loss
;   0751  0       macro RCB$W_CNT_XRE = 156,0,16,0 %;       !  Xmitted connect resource errors (ECL layer counter)
;   0752  0       macro RCB$W_CNT_MLL = 158,0,16,0 %;       !  Maximum logical links active (ECL layer counter)
;   0753  0       !
;   0754  0       !         End of transport counters
;   0755  0       !
;   0756  0       macro RCB$Q_CXB_FREE = 160,0,0,0 %;
;   0757  0       literal RCB$S_CXB_FREE = 8;               !  Free CXB listhead
;   0758  0       macro RCB$B_LSN_ADJ = 168,0,8,0 %;        !  Current position in ADJ for listener processing
;   0759  0       macro RCB$B_AQB_CNT = 169,0,8,0 %;        !  Count of entries on AQB
;   0760  0       macro RCB$W_DRT = 170,0,16,0 %;           !  Designated router ADJ index for all transmits
;   0761  0       !  with an unspecified output adjacency
;   0762  0       macro RCB$W_LVL2 = 172,0,16,0 %;          !  Level 2 router ADJ index for all transmits with
;   0763  0
;   0764  0       !*** MODULE LPD ***
;   0765  0       !
;   0766  0       !  Logical Path Descriptor  (LPD)
;   0767  0       !
;   0768  0       !  The following control block describes a path to a data sink/source -- either
;   0769  0       !  a datalink driver (e.g., XMDRIVER) or an end communications level (ECL)
;   0770  0       !  driver (e.g., NETDRIVER).
;   0771  0       !
;   0772  0       literal LPD$C_LOC_INX = 1;                !  Index associate with the primary "local" LPD
;     0773  0     !
;     0774  0     !            Status on control info
;     0775  0     !
;     0776  0     literal LPD$M_ACTIVE = 1;
;     0777  0     literal LPD$M_STRTIM = 2;
;     0778  0     literal LPD$M_DLE = 4;
;     0779  0     literal LPD$M_ACCESS = 8;
;     0780  0     literal LPD$M_RUN = 16;
;     0781  0     literal LPD$M_XBF = 32;
;     0782  0     literal LPD$M_RBF = 64;
;     0783  0     literal LPD$M_X25 = 128;
;     0784  0     literal LPD$M_X25BLK = 256;
;     0785  0     literal LPD$M_INCOMING = 512;
;     0786  0     literal LPD$M_BC = 1024;
;     0787  0     literal LPD$M_XEND = 2048;
;     0788  0     literal LPD$M_TOGGLE = 4096;
;     0789  0     literal LPD$M_ALIGNW = 8192;
;     0790  0     literal LPD$M_ALIGNQ = 16384;
;     0791  0     literal LPD$M_ELECT_TIM = 32768;
;     0792  0     literal LPD$M_XMT_DALLY = 1;
;     0793  0     literal LPD$M_XMT_STR = 2;
;     0794  0     literal LPD$M_XMT_VRF = 4;
;     0795  0     literal LPD$M_XMT_IDLE = 8;
;     0796  0     literal LPD$M_XMT_RT = 16;
;     0797  0     literal LPD$M_XMT_HEL = 32;
;     0798  0     literal LPD$M_XMT_ART = 64;
;     0799  0     literal LPD$M_PVC_ACCESS = 1;
;     0800  0     literal LPD$M_PVC_RESTRT = 2;
;     0801  0     literal LPD$M_PVC_RESET = 4;
;     0802  0     literal LPD$M_FILL_2 = 120;
;     0803  0     literal LPD$M_PVC_ACCESSED = 128;
;     0804  0     literal LPD$C_CNT_SIZE = 22;                    !  Number of bytes used for counters
;     0805  0     literal LPD$C_SRM_NODES = 32;                   !  Number of nodes per segment(bit)
;     0806  0     literal LPD$C_SRM_SHFT = 5;                     !  Bit shift for node<->bit!
;     0807  0     literal LPD$C_SRM_SIZE = 32;                    !  Number of bits in SRM bitmask (allows for 1024 nodes)
;     0808  0     literal LPD$C_ASRM_AREAS = 64;                  !  Number of areas per segment(bit)
;     0809  0     literal LPD$C_ASRM_SHFT = 6;                    !  Bit shift for area<->bit!
;     0810  0     literal LPD$C_ASRM_SIZE = 1;                    !  Number of bits in ASRM bitmask (allows for 64 areas)
;     0811  0     literal LPD$K_LENGTH = 106;                     !  Structure size
;     0812  0     literal LPD$C_LENGTH = 106;                     !  Structure size
;     0813  0     literal LPD$S_LPDDEF = 106;
;     0814  0     macro LPD$Q_REQ_WAIT = 0,0,0,0 %;
;     0815  0     literal LPD$S_REQ_WAIT = 8;                     !  Listhead of fork processes waiting for a 'request'
;     0816  0     !  slot on the LPD sink queue.
;     0817  0     macro LPD$W_SIZE = 8,0,16,0 %;                  !  Structure size
;     0818  0     macro LPD$B_TYPE = 10,0,8,0 %;                  !  Structure type
;     0819  0     macro LPD$B_STARTUPS = 11,0,8,0 %;              !  Number of datalink startup attempts since last "run"
;     0820  0     macro LPD$L_WIND = 12,0,32,0 %;                 !  Driver context - WIND field image for IRPs
;     0821  0     macro LPD$L_UCB = 16,0,32,0 %;                  !  Driver context - UCB address
;     0822  0     macro LPD$W_CHAN = 20,0,16,0 %;                 !  ACP channel to device
;     0823  0     macro LPD$W_TIM_TLK = 22,0,16,0 %;              !  "Talker" timer
;     0824  0     macro LPD$W_INT_TLK = 24,0,16,0 %;              !  "Talker" interval (used to init TIM_TLK)
;     0825  0     macro LPD$B_TSTCNT = 26,0,8,0 %;                !  Number of test messages left to send before entering
;     0826  0     !  the RUN state
;     0827  0     macro LPD$B_ASTCNT = 27,0,8,0 %;                !  Number of outstanding ASTs
;     0828  0     macro LPD$B_IRPCNT = 28,0,8,0 %;                !  Number of outstanding IRPs queued by NETDRIVER
;     0829  0     macro LPD$B_ETY = 29,0,8,0 %;                   !  Our node type, on this circuit
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0830  0     macro LPD$B_XMT_SRL = 30,0,8,0 %;           !  Output "square root limiter" value
0831  0     macro LPD$B_XMT_IPL = 31,0,8,0 %;           !  Output queue "input packet limiter"
0832  0     macro LPD$W_PTH = 32,0,16,0 %;              !  Path ID
0833  0     macro LPD$B_PTH_INX = 32,0,8,0 %;           !  Path index
0834  0     macro LPD$B_PTH_SEQ = 33,0,8,0 %;           !  Path sequence
0835  0     macro LPD$W_STS = 34,0,16,0 %;              !  Status bits as follows:
0836  0     macro LPD$V_ACTIVE = 34,0,1,0 %;            !  Path is active
0837  0     macro LPD$V_STRTIM = 34,1,1,0 %;            !  Set if restart supression timer is ticking
0838  0     macro LPD$V_DLE = 34,2,1,0 %;               !  Set if in use for physical line service
0839  0     macro LPD$V_ACCESS = 34,3,1,0 %;            !  Set if LPD is being "accessed" by a server process
0840  0     macro LPD$V_RUN = 34,4,1,0 %;               !  Set if active and in use for normal data msgs
0841  0     macro LPD$V_XBF = 34,5,1,0 %;               !  Set if Xmitter uses buffered I/O
0842  0     macro LPD$V_RBF = 34,6,1,0 %;               !  Set if Receiver uses buffered I/O
0843  0     macro LPD$V_X25 = 34,7,1,0 %;               !  Set if X.25 datalink mapping used on this circuit
0844  0     macro LPD$V_X25BLK = 34,8,1,0 %;            !  Set if blocking requested for X.25 datalink
0845  0     macro LPD$V_INCOMING = 34,9,1,0 %;          !  Set if X.25 circuit waiting for incoming call
0846  0     macro LPD$V_BC = 34,10,1,0 %;               !  Set if circuit is a broadcast circuit (NI)
0847  0     macro LPD$V_XEND = 34,11,1,0 %;             !  Set if "send hello msg to all endnodes" is requested
0848  0     macro LPD$V_TOGGLE = 34,12,1,0 %;           !  Set if listener timeout on DMC line (toggles line)
0849  0     macro LPD$V_ALIGNW = 34,13,1,0 %;           !  Set if datalink requires word alignment
0850  0     macro LPD$V_ALIGNQ = 34,14,1,0 %;           !  Set if datalink requires quadword alignment
0851  0     macro LPD$V_ELECT_TIM = 34,15,1,0 %;        !  Set if election suppression timer ticking
0852  0     macro LPD$B_XMTFLG = 36,0,8,0 %;            !  Xmit flags -- since a FFS is used to schedule message
0853  0     !  transimission, the order of these flags are crucial
0854  0     macro LPD$V_XMT_DALLY = 36,0,1,0 %;         !  Dally before sending a start msg (must preceed STR)
0855  0     macro LPD$V_XMT_STR = 36,1,1,0 %;           !  Xmit a Transport start msg
0856  0     macro LPD$V_XMT_VRF = 36,2,1,0 %;           !  Xmit a Transport verification msg
0857  0     macro LPD$V_XMT_IDLE = 36,3,1,0 %;          !  Signals "no more Transport init messages to send"
0858  0     macro LPD$V_XMT_RT = 36,4,1,0 %;            !  Xmit a Transport routing message
0859  0     macro LPD$V_XMT_HEL = 36,5,1,0 %;           !  Xmit a Transport hello message
0860  0     macro LPD$V_XMT_ART = 36,6,1,0 %;           !  Xmit a Transport Area routing message
0861  0     macro LPD$B_PVCFLG = 37,0,8,0 %;            !  X.25 PVC startup flags -- since a FFS is used to
0862  0     !  schedule it, the order of these flags are crucial
0863  0     macro LPD$V_PVC_ACCESS = 37,0,1,0 %;        !  Issue an IO$_ACCESS to establish the connection
0864  0     macro LPD$V_PVC_RESTRT = 37,1,1,0 %;        !  Issue a "restart confirmation"
0865  0     macro LPD$V_PVC_RESET = 37,2,1,0 %;         !  Issue a "reset" or "reset confirmation"
0866  0     macro LPD$V_FILL_2 = 37,3,4,0 %;
0867  0     literal LPD$S_FILL_2 = 4;                   !  (reserve low 4 bits for state, 3 more bits unused)
0868  0     macro LPD$V_PVC_ACCESSED = 37,7,1,0 %;      !  True if PVC ACCESSed
0869  0     macro LPD$B_STI = 38,0,8,0 %;               !  Internal state used by the ACP for initialization
0870  0     macro LPD$B_SUB_STA = 39,0,8,0 %;           !  Circuit sub-state
0871  0     macro LPD$B_PLVEC = 40,0,8,0 %;             !  Associate PLVEC index
0872  0     macro LPD$B_COST = 41,0,8,0 %;              !  Circuit cost
0873  0     macro LPD$B_BCPRI = 42,0,8,0 %;             !  Circuit NI router priority
0874  0     macro LPD$W_DRT = 44,0,16,0 %;              !  Designated router on NI
0875  0     macro LPD$L_RTR_LIST = 46,0,32,0 %;         !  For BC LPDs, address of "most recently received
0876  0     !  election message" from Router Hello messages
0877  0     !  (stored as an byte-counted string)
0878  0     macro LPD$L_RCV_IRP = 50,0,32,0 %;          !  Address of suspended receiver IRP
0879  0     !
0880  0     !            Transport layer counters
0881  0     !
0882  0     macro LPD$L_ABS_TIM = 54,0,32,0 %;          !  Absolute time counters were last zeroed
0883  0     macro LPD$L_CNT_APR = 58,0,32,0 %;          !  Arriving packets received
0884  0     macro LPD$B_CNT_1ST = 58,0,8,0 %;           !  First counter cell marker
0885  0     macro LPD$L_CNT_TPR = 62,0,32,0 %;          !  Transit packets received
0886  0     macro LPD$L_CNT_DPS = 66,0,32,0 %;          !  Departing packets sent
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0887  0     macro LPD$L_CNT_TPS = 70,0,32,0 %;        !  Transit packets sent
0888  0     macro LPD$W_CNT_ACL = 74,0,16,0 %;        !  Arriving congestion loss
0889  0     macro LPD$W_CNT_TCL = 76,0,16,0 %;        !  Transit congestion loss
0890  0     macro LPD$B_CNT_LDN = 78,0,8,0 %;         !  Line down events
0891  0     macro LPD$B_CNT_IFL = 79,0,8,0 %;         !  Initialization failures
0892  0     macro LPD$W_BUFSIZ = 80,0,16,0 %;         !  Datalink buffer size including Transport overhead
0893  0     !  (variable route header depending on the datalink)
0894  0     macro LPD$B_SRM_POS = 82,0,8,0 %;         !  Current position in transmit XMT_SRM bitmask (bit !)
0895  0     macro LPD$B_SRM_LEFT = 83,0,8,0 %;        !  Number of transmit XMT_SRM bits left to check/process
0896  0     macro LPD$B_ASRM_POS = 84,0,8,0 %;        !  Current position in transmit XMT_ASRM bitmask (bit !)
0897  0     macro LPD$B_ASRM_LEFT = 85,0,8,0 %;       !  Number of transmit XMT_ASRM bits left to check/process
0898  0     macro LPD$G_SRM = 86,0,32,0 %;
0899  0     literal LPD$S_SRM = 4;                    ! (32/8) ; "Send routing message" flags (one per segment)
0900  0     macro LPD$G_XMT_SRM = 90,0,32,0 %;
0901  0     literal LPD$S_XMT_SRM = 4;                !  Copy of SRM flags used for rtg msg transmission
0902  0     macro LPD$G_ASRM = 94,0,32,0 %;
0903  0     literal LPD$S_ASRM = 4;                   ! (1/8); "Send area routing message" flags (one per segment)
0904  0     macro LPD$G_XMT_ASRM = 98,0,32,0 %;
0905  0     literal LPD$S_XMT_ASRM = 4;               !  Copy of ASRM flags used for rtg msg transmission
0906  0     macro LPD$L_CACHE = 102,0,32,0 %;         !  Address of endnode cache storage (endnodes only)
0907  0
0908  0     !*** MODULE ADJ ***
0909  0     !
0910  0     !   Adjaceny Node Data Base Block (ADJ)
0911  0     !
0912  0     !   This block describes the contents of the Adjacency Node Data Base. The
0913  0     !   Adjacency Node Data Base is used in conjunction with the LPD data base
0914  0     !   to describe the destination to any node in the network.
0915  0     !
0916  0     literal ADJ$M_INUSE = 1;
0917  0     literal ADJ$M_RUN = 2;
0918  0     literal ADJ$M_RTG = 4;
0919  0     literal ADJ$M_LSN = 8;
0920  0     literal ADJ$C_PTY_UNK = -1;               !  Node type is unknown
0921  0     literal ADJ$C_PTY_PH3 = 0;                !  Phase III full routing
0922  0     literal ADJ$C_PTY_PH3N = 1;               !  Phase III non routing
0923  0     literal ADJ$C_PTY_PH2 = 2;                !  Phase II
0924  0     literal ADJ$C_PTY_AREA = 3;               !  Phase IV area routing
0925  0     literal ADJ$C_PTY_PH4 = 4;                !  Phase IV routing
0926  0     literal ADJ$C_PTY_PH4N = 5;               !  Phase IV non routing
0927  0     literal ADJ$K_LENGTH = 13;                !  Structure size
0928  0     literal ADJ$C_LENGTH = 13;                !  Structure size
0929  0     literal ADJ$S_ADJDEF = 13;
0930  0     macro ADJ$B_STS = 0,0,8,0 %;              !  Status flags
0931  0     macro ADJ$V_INUSE = 0,0,1,0 %;            !  Adjacency block in use
0932  0     macro ADJ$V_RUN = 0,1,1,0 %;              !  Adjacency is up (can transmit pkts over it)
0933  0     macro ADJ$V_RTG = 0,2,1,0 %;              !  Partner is a routing node (PH3,PH4-1,PH4-2)
0934  0     macro ADJ$V_LSN = 0,3,1,0 %;              !  Listen timer is ticking
0935  0     macro ADJ$B_PTYPE = 1,0,8,0 %;            !  Type of partner node (routing, non-routing, etc.)
0936  0     macro ADJ$W_LPD = 2,0,16,0 %;             !  Path ID
0937  0     macro ADJ$B_LPD_INX = 2,0,8,0 %;          !  Path index
0938  0     macro ADJ$B_LPD_SEQ = 3,0,8,0 %;          !  Path sequence
0939  0     macro ADJ$W_PNA = 4,0,16,0 %;             !  Partner node address
0940  0     macro ADJ$W_BUFSIZ = 6,0,16,0 %;          !  Neighbor's block size
0941  0     macro ADJ$W_INT_LSN = 8,0,16,0 %;         !  Listener interval (computed from neighbor's hello)
0942  0     macro ADJ$W_TIM_LSN = 10,0,16,0 %;        !  Listener timer (seconds left)
0943  0     macro ADJ$B_BCPRI = 12,0,8,0 %;           !  Broadcast priority
```

```

!*** MODULE XMC ***
! +
!
!  DMC counter block - provides offsets for SHOW QIO return of counters
!
! -
literal XMC$K_LENGTH = 28;              !  Length of counter block
literal XMC$C_LENGTH = 28;              !  Length of counter block
literal XMC$S_XMCDEF = 28;
macro XMC$L_XMTBYTCNT = 0,0,32,0 %;     !  No. of bytes transmitted
macro XMC$L_RCVBYTCNT = 4,0,32,0 %;     !  No. of bytes received
macro XMC$W_XMTMSGCNT = 8,0,16,0 %;     !  No. of msgs transmitted
macro XMC$W_RCVMSGCNT = 10,0,16,0 %;    !  No. of msgs received
macro XMC$W_RCVNOBUF = 12,0,16,0 %;     !  No. of ''no buffer'' NAKS received
macro XMC$W_RCVHDRBCC = 14,0,16,0 %;    !  No. of ''header BCC error'' NAKS received
macro XMC$W_RCVDATBCC = 16,0,16,0 %;    !  No. of ''data BCC error'' NAKS received
macro XMC$W_XMTNOBUF = 18,0,16,0 %;     !  No. of ''no buffer'' NAKS xmitted
macro XMC$W_XMTHDRBCC = 20,0,16,0 %;    !  No. of ''header BCC error'' NAKS xmitted
macro XMC$W_XMTDATBCC = 22,0,16,0 %;    !  No. of ''data BCC error'' NAKS xmitted
macro XMC$W_XMTREPS = 24,0,16,0 %;      !  No. of REPS xmitted
macro XMC$W_RCVREPS = 26,0,16,0 %;      !  No. of REPS received

!*** MODULE LTB ***
!
!  LINK TABLE         - LTB
!
!  This structure is maintained by NSP (NETDRIVER).  It contains all
!  local 'end communications layer' parameters and a vector of logical
!  link slots.
!
literal LTB$K_LENGTH = 20;              !  Structure size
literal LTB$C_LENGTH = 20;              !  Structure size
!  This is the first slot, not a pointer to it.
!  Each slot in the vector is 4 bytes.  If the
!  low bit is set then the slot is available and
!  its sequence number (number of times used) is
!  found in the high order word.  If the low bit
!  is clear then the slot contains a pointer to
!  a structure containing the link context and
!  state information.
!
!  This vector is terminated by a longword of all
!  ones followed by a longword of all zeroes.
literal LTB$S_LTBDEF = 20;
macro LTB$L_SLT_NXT = 0,0,32,0 %;       !  Pointer into the link slot vector of the
!   slot candidate to be tried the next time
!   a link slot needs to be allocated
macro LTB$W_SLT_TOT = 4,0,16,0 %;       !  Total slots in vector
macro LTB$W_SLT_LMT = 6,0,16,0 %;       !  Total useable slots in vector
macro LTB$W_SIZE = 8,0,16,0 %;          !  Size, in bytes, of this structure
macro LTB$B_TYPE = 10,0,8,0 %;          !  Structure identifier
macro LTB$B_SPARE = 11,0,8,0 %;         !  Reserved for future use
macro LTB$L_XWB = 12,0,32,0 %;          !  XWB listhead
macro LTB$L_SLOTS = 16,0,32,0 %;        !  The begining of the logical link slot vector.

!*** MODULE ICB ***
```

```
0       !
0       !   INTERNAL CONNECT BLOCK  - used to pass generic connect information
0       !                             between the Network ACP and an End Communi-
0       !                             cations Layer (ECL) driver (e.g. NETDRIVER)
0       !
0      literal ICB$C_LPRNAM = 20;              !  Maximum length of counted process name
0      literal ICB$C_RPRNAM = 20;              !  Maximun length of counted process name
0      literal ICB$C_ACCESS = 64;              !  Maximum combined composite access string length
0      literal ICB$K_LENGTH = 163;             !  Structure size
0      literal ICB$C_LENGTH = 163;             !  Structure size
0      literal ICB$C_RID = 16;                 !  Max size of RID text field
0      literal ICB$S_ICBDEF = 163;
0      macro ICB$W_PATH = 0,0,16,0 %;          !  Path number (logical line) over which connect
0       !  was received or is to be transmitted.  It
0       !  contains a sequence number in the high byte.
0       !  A value of zero indicates no path specified.
0      macro ICB$W_LOCLNK = 2,0,16,0 %;        !  Local link address
0      macro ICB$W_TIM_OCON = 4,0,16,0 %;      !  Outbound connect timer, in seconds
0      macro ICB$W_TIM_INACT = 6,0,16,0 %;     !  Maximum inactivity timer, in seconds
0      macro ICB$W_SIZE = 8,0,16,0 %;          !  Bytes allocated for structure
0      macro ICB$B_TYPE = 10,0,8,0 %;          !  Contains structure type code
0      macro ICB$W_RETRAN = 12,0,16,0 %;       !  Maximum consecutive retransmissions before the
0       !  link is forcibly disconnected
0      macro ICB$W_DLY_FACT = 14,0,16,0 %;     !  Retransmission timer delay factor
0      macro ICB$W_DLY_WGHT = 16,0,16,0 %;     !  Retransmission timer delay weight
0      macro ICB$W_SEGSIZ = 18,0,16,0 %;       !  Maximum receive data segment size, in bytes,
0       !  excluding End Communications Layer protocol.
0      macro ICB$B_LPRNAM = 20,0,8,0 %;        !  Count of bytes used in next field
0      macro ICB$T_LPRNAM = 21,0,0,0 %;
0      literal ICB$S_LPRNAM = 19;              !  Local process name
0      macro ICB$B_RPRNAM = 40,0,8,0 %;        !  Count of bytes used in next field
0      macro ICB$T_RPRNAM = 41,0,0,0 %;
0      literal ICB$S_RPRNAM = 19;              !  Remote process name
0       !
0       !   Process names contain a type field in the
0       !   first byte, and have the following formats:
0       !
0       !   <0> followed by 1 byte non-zero object type
0       !   <1> followed by an object type followed by
0       !       a counted (16 text bytes,max) object name
0       !   <2> followed by an object type followed by
0       !       2 byte group code, 2 byte user code, and
0       !       a counted (12 text bytes,max) object name
0       !
0      macro ICB$B_DSTFMT = 41,0,8,0 %;        !  Format byte of remote process name
0      macro ICB$B_DSTOBJ = 42,0,8,0 %;        !  Object type byte of remote process name
0      macro ICB$T_DSTDSC = 43,0,8,0 %;        !  Destination descriptor part of remote proc name
0      macro ICB$B_ACCESS = 60,0,8,0 %;        !  Count of bytes in following field
0      macro ICB$T_ACCESS = 61,0,0,0 %;
0      literal ICB$S_ACCESS = 63;              !  Concatenated access control strings, with subfield
0       !  maximum lengths as follows (note that the sum of
0       !  the actual subfield lengths must be less than 63):
0       !     F         USER,B              /* Count of bytes used in next field
0       !     F         USER,T,39       /* "User" field of account to be connected to
0       !     F         PSW,B               /* Count of bytes used in next field
0       !     F         PSW,T,39        /* "Password" field of that account
0       !     F         ACCT,B              /* Count of bytes used in next field
```

```
    1058  0      !    F          ACCT,T,39        /* "Account" field of that account
    1059  0      macro ICB$B_DATA = 124,0,8,0 %;           !  Count of bytes used in next field
    1060  0      macro ICB$T_DATA = 125,0,0,0 %;           !
    1061  0      literal ICB$S_DATA = 16;                  !  Optional connect data
    1062  0      macro ICB$W_REMNOD = 141,0,16,0 %;        !  Network address of partner
    1063  0      macro ICB$B_RID = 146,0,8,0 %;            !  Remote user (process, task, etc.) i.d.
    1064  0      macro ICB$T_RID = 147,0,0,0 %;            !
    1065  0      literal ICB$S_RID = 16;                   !
    1066  0
    1067  0      !*** MODULE NETUPD ***
    1068  0      ! +
    1069  0      !
    1070  0      !  Function codes for XWB update routine (ACP communication routine)
    1071  0      !
    1072  0      ! -
    1073  0      !  Code
    1074  0      literal NETUPD$_ABORT = 1;                !  Breaking link
    1075  0      literal NETUPD$_CONNECT = 2;              !  Give NCB to task w/ declared name or object
    1076  0      literal NETUPD$_EXIT = 3;                 !  Task is exiting
    1077  0      literal NETUPD$_PROCRE = 4;               !  Starting a new process
    1078  0      literal NETUPD$_DLL_ON = 5;               !  Datalink starting for normal use
    1079  0      literal NETUPD$_DLL_DLE = 6;              !  Datalink starting for service functions
    1080  0      literal NETUPD$_CRELNK = 7;               !  Create a logical link control block
    1081  0      literal NETUPD$_ABOLNK = 8;               !  Abort all links - network shutdown
    1082  0      literal NETUPD$_DSCLNK = 9;               !  Disconnect the specified link
    1083  0      literal NETUPD$_BRDCST = 10;              !  Broadcast mailbox message
    1084  0      literal NETUPD$_REPLY = 11;               !  Send mailbox message to a specific mailbox
    1085  0      literal NETUPD$_REACT_RCV = 12;           !  Reactivate datalink receiver
    1086  0      literal NETUPD$_SEND_HELLO = 13;          !  Send hello message immediately
    1087  0      literal NETUPD$_GET_ADJ = 14;             !  Get output ADJ for a given node address
    1088  0      literal NETUPD$_TEST_ADJ = 15;            !  Test if given node is adjacent to endnode
    1089  0
    1090  0      !*** MODULE NETMSG ***
    1091  0      ! +
    1092  0      !  Define event codes used to pass blocks to the ACP
    1093  0      !
    1094  0      ! -
    1095  0
    1096  0      literal NETMSG$C_UNK = 1;                 !  Unknown message
    1097  0      literal NETMSG$C_ILL = 2;                 !  Illegal message
    1098  0      literal NETMSG$C_TR = 3;                  !  Transport control message
    1099  0      literal NETMSG$C_IRP = 4;                 !  IRP from datalink which is shutting down
    1100  0      literal NETMSG$C_APL = 5;                 !  Aged packet
    1101  0      literal NETMSG$C_NUL = 6;                 !  Node unreachable packet
    1102  0      literal NETMSG$C_NOL = 7;                 !  Node out of range packet
    1103  0      literal NETMSG$C_PFE = 8;                 !  Packet format error
    1104  0      literal NETMSG$C_LSN = 9;                 !  Listner timer expired
    1105  0      literal NETMSG$C_OPL = 10;                !  Oversized packet loss
    1106  0      literal NETMSG$C_CRD = 11;                !  Circuit run down
    1107  0      literal NETMSG$C_ADJ = 12;                !  Adjacency up
```

```
 1108  0      ! *********************************************************************************************************
 1109  0      !  Created 15-SEP-1984 22:48:56  by  VAX-11 SDL V2.0       Source: 15-SEP-1984 22:47:52 _$255$DUA28:[NETACP.SRC]NETU
 1110  0      ! *********************************************************************************************************
 1111  0
 1112  0
 1113  0      !*** MODULE NFB ***
 1114  0      !
 1115  0      !       The following generic field identifiers are defined for all databases.
 1116  0      !
 1117  0      literal NFB$C_ENDOFLIST = 0;            !  Used to terminate the field i.d.
 1118  0      literal NFB$C_WILDCARD = 1;             !  Field i.d. used for "match all" database searches
 1119  0      literal NFB$C_CTX_SIZE = 64;            !  Length of context area in P2 buffer
 1120  0      !
 1121  0      !       The following codes are passed in the second IOSB longword to qualify
 1122  0      !       as SS$_ILLCNTRFUNC error.
 1123  0      !
 1124  0      !  The high order word of these error codes must be 0
 1125  0      !  so that they won't be confused with field i.d.s
 1126  0      literal NFB$_ERR_FCT = 1;               !  Unrecognized NFB$B_FCT value.
 1127  0      literal NFB$_ERR_DB = 2;                !  Unrecognized NFB$B_DATABASE value.
 1128  0      literal NFB$_ERR_P1 = 3;                !  The P1 buffer is invalid.
 1129  0      literal NFB$_ERR_P2 = 4;                !  The P2 buffer is invalid.
 1130  0      literal NFB$_ERR_P3 = 5;                !  The P3 buffer is invalid.
 1131  0      literal NFB$_ERR_P4 = 6;                !  The P4 buffer is invalid.
 1132  0      literal NFB$_ERR_P5 = 7;                !  The P5 buffer should not have been specified.
 1133  0      literal NFB$_ERR_P6 = 8;                !  The P6 buffer should not have been specified.
 1134  0      literal NFB$_ERR_CELL = 9;              !  Unrecognized NFB$B_CELL value.
 1135  0      literal NFB$_ERR_OPER = 10;             !  Unrecognized NFB$B_OPER value.
 1136  0      literal NFB$_ERR_SRCH = 11;             !  Unrecognized NFB$L_SRCH_KEY field ID
 1137  0      literal NFB$_ERR_SRCH2 = 12;            !  Unrecognized NFB$L_SRCH2_KEY field ID
 1138  0      literal NFB$_ERR_OPER2 = 13;            !  Unrecognized NFB$B_OPER2 value.
 1139  0      literal NFB$_ERR_FLAGS = 14;            !  Undefined bits in NFB$B_FLAGS were not zero.
 1140  0      !
 1141  0      !       Define the P1 buffer format
 1142  0      !
 1143  0      literal NFB$C_DECLNAME = 21;            !  Declare name
 1144  0      literal NFB$C_DECLOBJ = 22;             !  Declare object
 1145  0      literal NFB$C_DECLSERV = 23;            !  Declare server process available
 1146  0      !  Resume defining function codes
 1147  0      !   (leave room for 4 obsolete function codes)
 1148  0      literal NFB$C_LOGEVENT = 28;            !  Log a network event
 1149  0      literal NFB$C_READEVENT = 29;           !  Read current raw event queue (used by EVL only)
 1150  0      !  Resume defining function codes
 1151  0      !   (leave room for 3 obsolete function codes)
 1152  0      literal NFB$C_FC_DELETE = 33;           !  Remove an entry from the data base.
 1153  0      literal NFB$C_FC_SHOW = 34;             !  Return specified field values.
 1154  0      literal NFB$C_FC_SET = 35;              !  Set/modify the field values.
 1155  0      literal NFB$C_FC_CLEAR = 36;            !  Clear specified field values.
 1156  0      literal NFB$C_FC_ZERCOU = 37;           !  Zero (and optionally read) counters
 1157  0      literal NFB$C_FC_LOOP = 38;             !  Loop (used only to PSI to loop an X.25 line)
 1158  0      !  Maximum FCT value
 1159  0      literal NFB$C_FC_MAX = 38;              !  Maximum FCT value
 1160  0      literal NFB$M_ERRUPD = 1;
 1161  0      literal NFB$M_MULT = 2;
 1162  0      literal NFB$M_NOCTX = 4;
 1163  0      literal NFB$C_DB_LNI = 1;               !  Local node
 1164  0      literal NFB$C_DB_NDI = 2;               !  Common nodes
 1165 0      literal NFB$C_DB_OBI = 3;                    ! Network objects
 1166 0      literal NFB$C_DB_CRI = 4;                    ! Circuits
 1167 0      literal NFB$C_DB_PLI = 5;                    ! Lines
 1168 0      literal NFB$C_DB_EFI = 6;                    ! Event logging filters
 1169 0      literal NFB$C_DB_ESI = 7;                    ! Event logging sinks
 1170 0      literal NFB$C_DB_LLI = 8;                    ! Logical-links
 1171 0      literal NFB$C_DB_XNI = 9;                    ! X.25 networks
 1172 0      literal NFB$C_DB_XGI = 10;                   ! X.25 groups
 1173 0      literal NFB$C_DB_XDI = 11;                   ! X.25 DTEs
 1174 0      literal NFB$C_DB_XS5 = 12;                   ! X.25 server
 1175 0      literal NFB$C_DB_XD5 = 13;                   ! X.25 destinations
 1176 0      literal NFB$C_DB_XS9 = 14;                   ! X.29 server
 1177 0      literal NFB$C_DB_XD9 = 15;                   ! X.29 destinations
 1178 0      literal NFB$C_DB_XTI = 16;                   ! X.25 trace facility
 1179 0      literal NFB$C_DB_XTT = 17;                   ! X.25 tracepoints
 1180 0      literal NFB$C_DB_SPI = 18;                   ! Server Process
 1181 0      literal NFB$C_DB_AJI = 19;                   ! Adjacency information
 1182 0      literal NFB$C_DB_ARI = 20;                   ! Area information
 1183 0      !  (The following codes are reserved for future PSACP
 1184 0      !   databases.  These codes should only be used in the
 1185 0      !   event PSIACP needs a database code before a new
 1186 0      !   new NETACP can be supplied to support it).
 1187 0      literal NFB$C_DB_PSI1 = 21;                  ! PSI reserved database
 1188 0      literal NFB$C_DB_PSI2 = 22;                  ! PSI reserved database
 1189 0      literal NFB$C_DB_PSI3 = 23;                  ! PSI reserved database
 1190 0      literal NFB$C_DB_PSI4 = 24;                  ! PSI reserved database
 1191 0      literal NFB$C_DB_PSI5 = 25;                  ! PSI reserved database
 1192 0      literal NFB$C_DB_SDI = 26;                   ! Service (DLE) information
 1193 0      literal NFB$C_DB_XAI = 27;                   ! X.25 access database
 1194 0      literal NFB$C_DB_XXX = 28;                   ! Last database definition for NFB$C_DB_MAX calc.
 1195 0      !  Maximum DATABASE value
 1196 0      literal NFB$C_DB_MAX = 27;                   ! Maximum DATABASE value
 1197 0      literal NFB$C_OP_EQL = 0;                    ! Match if SEARCH_KEY value EQL database entry field
 1198 0      literal NFB$C_OP_GTRU = 1;                   ! Match if SEARCH_KEY value GTRU database entry field
 1199 0      literal NFB$C_OP_LSSU = 2;                   ! Match if SEARCH_KEY value LSSU database entry field
 1200 0      literal NFB$C_OP_NEQ = 3;                    ! Match if SEARCH_KEY value NEQ database entry field
 1201 0      !  The following may only be used internally by NETACP
 1202 0      literal NFB$C_OP_FNDMIN = 4;                 ! Find entry with minimum key value
 1203 0      literal NFB$C_OP_FNDMAX = 5;                 ! Find entry with maximum key value
 1204 0      literal NFB$C_OP_FNDPOS = 6;                 ! Find entry position in database
 1205 0      !  Maximum operator function
 1206 0      literal NFB$C_OP_MAXFCT = 3;                 ! Maximum operator function
 1207 0      literal NFB$C_OP_MAXINT = 6;                 ! Maximum internal function
 1208 0      literal NFB$K_LENGTH = 16;                   ! Minimum structure size.
 1209 0      literal NFB$C_LENGTH = 16;                   ! Minimum structure size.
 1210 0      !  counted strings.  If the "cell size" is non-zero, it
 1211 0      !  indicates the number of bytes which each string in
 1212 0      !  the P4 buffer occupies.  If it is zero then strings
 1213 0      !  fields are stored as variable lengthed strings.
 1214 0      literal NFB$S_NFBDEF = 20;
 1215 0      macro NFB$B_FCT = 0,0,8,0 %;                 ! A function code as follows:
 1216 0      !  Function codes for the NFB
 1217 0      !   (leaving room for 20 obsolete function codes)
 1218 0      macro NFB$B_FLAGS = 1,0,8,0 %;               ! Miscellaneous control flags
 1219 0      macro NFB$V_ERRUPD = 1,0,1,0 %;              ! Update position context, even on error
 1220 0      macro NFB$V_MULT = 1,1,1,0 %;                ! Process as many entries as can be fit into P4
 1221 0      macro NFB$V_NOCTX = 1,2,1,0 %;               ! Don't update position context, even if successful
```

```
  1222  0       !   (used to stay on an entry for a while).  This
  1223  0       !   flag overrides the ERRUPD flag.
  1224  0       macro NFB$B_DATABASE = 2,0,8,0 %;        !  A code identifying the database as follows:
  1225  0       !  ZERO is an illegal value for this field
  1226  0       macro NFB$B_OPER = 3,0,8,0 %;            !  Specifies the sense of the search (e.g. EQL, GEQU)
  1227  0       !  when comparing against the SRCH_KEY field.
  1228  0       macro NFB$L_SRCH_KEY = 4,0,32,0 %;       !  Search key field identifier specifying the key used
  1229  0       !  to locate the entry in the database.  This search is
  1230  0       !  controlled by the sense of the NFB$B_OPER field.
  1231  0       !
  1232  0       !  If this field has the value "NFB$C_WILDCARD", then
  1233  0       !  the very next entry in the list is assumed to be the
  1234  0       !  target of the search.
  1235  0       !
  1236  0       !  If this field is not specified (zero), then it
  1237  0       !  is assumed to be NFB$C_WILDCARD (no search key).
  1238  0       !
  1239  0       macro NFB$L_SRCH2_KEY = 8,0,32,0 %;      !  Secondary search key field ID specifying the key used
  1240  0       !  to locate the entry in the database.  This search is
  1241  0       !  controlled by the sense of the NFB$B_OPER2 field.
  1242  0       !
  1243  0       !  If both SRCH_KEY and SRCH2_KEY are specified, then
  1244  0       !  only those database entries matching both search keys
  1245  0       !  will be processed.
  1246  0       !
  1247  0       !  If this field is not specified (zero), then it
  1248  0       !  is assumed to be NFB$C_WILDCARD (no search key).
  1249  0       !
  1250  0       macro NFB$B_OPER2 = 12,0,8,0 %;          !  Specifies the sense of the search (e.g. EQL, GEQU)
  1251  0       !  when comparing against the SRCH2_KEY field.
  1252  0       macro NFB$B_MBZ1 = 13,0,8,0 %;           !  Reserved. MBZ.
  1253  0       macro NFB$W_CELL_SIZE = 14,0,16,0 %;     !  Some of the field values found in the P4 buffer are
  1254  0       macro NFB$L_FLDID = 16,0,32,0 %;         !  Cell containing the first field ID -- the list
  1255  0       !  of field IDs begins here and continues to the
  1256  0       !  end of the structure.
  1257  0       !
  1258  0       !  The list may be terminated before the end of the
  1259  0       !  structure by placing the value NFB$C_ENDOFLIST
  1260  0       !  in the longword following the last field ID.
  1261  0       !
  1262  0       !
  1263  0       !          Define the "field i.d." format.
  1264  0       !
  1265  0       literal NFB$M_INX = 65535;
  1266  0       literal NFB$M_TYP = 196608;
  1267  0       literal NFB$M_SPARE = 16515072;
  1268  0       literal NFB$M_DB = -16777216;
  1269  0       literal NFB$C_TYP_BIT = 0;               !  Field type for bits
  1270  0       literal NFB$C_TYP_V = 0;                 !  Field type for bits
  1271  0       literal NFB$C_TYP_LNG = 1;               !  Field type for longwords
  1272  0       literal NFB$C_TYP_L = 1;                 !  Field type for longwords
  1273  0       literal NFB$C_TYP_STR = 2;               !  Field type for strings
  1274  0       literal NFB$C_TYP_S = 2;                 !  Field type for strings
  1275  0       !
  1276  0       !    Define useful symbols for storing and retreiving binary and string
  1277  0       !    values from the P2 and P4 buffers
  1278  0       !
```

```
;     1279  0       literal NFB$S_NFBDEF1 = 4;
;     1280  0       macro NFB$L_PARAM_ID = 0,0,32,0 %;        !  Define parameter ID longword
;     1281  0       macro NFB$V_INX = 0,0,16,0 %;
;     1282  0       literal NFB$S_INX = 16;                   !  Index into semantic table
;     1283  0       macro NFB$V_TYP = 0,16,2,0 %;
;     1284  0       literal NFB$S_TYP = 2;                    !  Field type (string, bit, etc.)
;     1285  0       macro NFB$V_SPARE = 0,18,6,0 %;
;     1286  0       literal NFB$S_SPARE = 6;                  !  Reserved, MBZ
;     1287  0       macro NFB$V_DB = 0,24,8,0 %;
;     1288  0       literal NFB$S_DB = 8;                     !  Data-base i.d.
;     1289  0       literal NFB$S_NFBDEF2 = 4;
;     1290  0       macro NFB$L_LNG_VALUE = 0,0,32,0 %;       !  Longword value
;     1291  0       literal NFB$S_NFBDEF3 = 4;
;     1292  0       macro NFB$L_BIT_VALUE = 0,0,32,0 %;       !  Boolean value
;     1293  0       literal NFB$C_NDI_LCK = 33554433;         !  Set if conditionally writable fields are not writable
;     1294  0       literal NFB$C_NDI_LOO = 33554434;         !  Set if CNF is for a "loopback" node
;     1295  0       literal NFB$C_NDI_REA = 33554435;         !  Set if node is reachable
;     1296  0       !
;     1297  0       !     "Longword" Parameters
;     1298  0       !
;     1299  0       literal NFB$C_NDI_TAD = 33619984;         !  "transformed address" - uses local node address
;     1300  0       !  for the local NDI (instead of zero as does ADD)
;     1301  0       literal NFB$C_NDI_CTA = 33619985;         !  Absolute due time for logging counters
;     1302  0       literal NFB$C_NDI_ADD = 33619986;         !  Address
;     1303  0       literal NFB$C_NDI_CTI = 33619987;         !  Counter timer
;     1304  0       literal NFB$C_NDI_ACL = 33619988;         !  Active links
;     1305  0       literal NFB$C_NDI_DEL = 33619989;         !  Delay
;     1306  0       literal NFB$C_NDI_DTY = 33619990;         !  Destination Type
;     1307  0       literal NFB$C_NDI_DCO = 33619991;         !  Destination Cost
;     1308  0       literal NFB$C_NDI_DHO = 33619992;         !  Destination Hops
;     1309  0       literal NFB$C_NDI_SDV = 33619993;         !  Service Device
;     1310  0       literal NFB$C_NDI_CPU = 33619994;         !  CPU type
;     1311  0       literal NFB$C_NDI_STY = 33619995;         !  Software type
;     1312  0       literal NFB$C_NDI_DAD = 33619996;         !  Dump address
;     1313  0       literal NFB$C_NDI_DCT = 33619997;         !  Dump count
;     1314  0       literal NFB$C_NDI_OHO = 33619998;         !  Host
;     1315  0       literal NFB$C_NDI_IHO = 33619999;         !  Host
;     1316  0       literal NFB$C_NDI_ACC = 33620000;         !  Access switch (inbound, outbound, etc)
;     1317  0       literal NFB$C_NDI_PRX = 33620001;         !  ** obsolete ** (Node proxy parameter)
;     1318  0       literal NFB$C_NDI_NND = 33620002;         !  Next node address
;     1319  0       literal NFB$C_NDI_SNV = 33620003;         !  Service Node Version
;     1320  0       !
;     1321  0       !     String parameters
;     1322  0       !
;     1323  0       literal NFB$C_NDI_COL = 33685568;         !  Collating field
;     1324  0       literal NFB$C_NDI_HAC = 33685569;         !  Node address/loop linename combination
;     1325  0       literal NFB$C_NDI_CNT = 33685570;         !  Counters
;     1326  0       literal NFB$C_NDI_NNA = 33685571;         !  Name
;     1327  0       literal NFB$C_NDI_SLI = 33685572;         !  Service line
;     1328  0       literal NFB$C_NDI_SPA = 33685573;         !  Service password
;     1329  0       literal NFB$C_NDI_LOA = 33685574;         !  Load file
;     1330  0       literal NFB$C_NDI_SLO = 33685575;         !  Secondary loader
;     1331  0       literal NFB$C_NDI_TLO = 33685576;         !  Tertiary loader
;     1332  0       literal NFB$C_NDI_SID = 33685577;         !  Software ID
;     1333  0       literal NFB$C_NDI_DUM = 33685578;         !  Dump file
;     1334  0       literal NFB$C_NDI_SDU = 33685579;         !  Secondary dumper
;     1335  0       literal NFB$C_NDI_NLI = 33685580;         !  Loopback Line
;    1336  0      literal NFB$C_NDI_DLI = 33685581;       !  Destination Line
;    1337  0      literal NFB$C_NDI_PUS = 33685582;       !  Privileged user id
;    1338  0      literal NFB$C_NDI_PAC = 33685583;       !  Privileged account
;    1339  0      literal NFB$C_NDI_PPW = 33685584;       !  Privileged password
;    1340  0      literal NFB$C_NDI_NUS = 33685585;       !  Non-privileged user id
;    1341  0      literal NFB$C_NDI_NAC = 33685586;       !  Non-privileged account
;    1342  0      literal NFB$C_NDI_NPW = 33685587;       !  Non-privileged password
;    1343  0      literal NFB$C_NDI_RPA = 33685588;       !  Receive password
;    1344  0      literal NFB$C_NDI_TPA = 33685589;       !  Transmit password
;    1345  0      literal NFB$C_NDI_DFL = 33685590;       !  Diagnostic load file
;    1346  0      literal NFB$C_NDI_HWA = 33685591;       !  Hardware NI address (ROM address)
;    1347  0      literal NFB$C_NDI_LPA = 33685592;       !  Loop assistant NI address
;    1348  0      literal NFB$C_NDI_NNN = 33685593;       !  Next node name to destination (goes with NND)
;    1349  0      !
;    1350  0      !  Define a field identifier index for each parameter in the LNI database.
;    1351  0      !
;    1352  0      !
;    1353  0      !    Boolean parameters
;    1354  0      !
;    1355  0      literal NFB$C_LNI_LCK = 16777217;       !  Set if conditionally writable fields are not writable
;    1356  0      literal NFB$C_LNI_SUP = 16777218;       !  Set if area numbers are to be suppressed
;    1357  0      !
;    1358  0      !    Longword parameters
;    1359  0      !
;    1360  0      literal NFB$C_LNI_ADD = 16842768;       !  Address
;    1361  0      literal NFB$C_LNI_ACL = 16842769;       !  Total number of active links
;    1362  0      literal NFB$C_LNI_ITI = 16842770;       !  Incoming timer
;    1363  0      literal NFB$C_LNI_OTI = 16842771;       !  Outgoing timer
;    1364  0      literal NFB$C_LNI_STA = 16842772;       !  State
;    1365  0      literal NFB$C_LNI_MLK = 16842773;       !  Maximum links
;    1366  0      literal NFB$C_LNI_DFA = 16842774;       !  Delay factor
;    1367  0      literal NFB$C_LNI_DWE = 16842775;       !  Delay weight
;    1368  0      literal NFB$C_LNI_IAT = 16842776;       !  Inactivity timer
;    1369  0      literal NFB$C_LNI_RFA = 16842777;       !  Retransmit factor
;    1370  0      literal NFB$C_LNI_ETY = 16842778;       !  Executor Type
;    1371  0      literal NFB$C_LNI_RTI = 16842779;       !  Routing timer
;    1372  0      literal NFB$C_LNI_RSI = 16842780;       !  Routing suppression timer
;    1373  0      literal NFB$C_LNI_SAD = 16842781;       !  Subaddress
;    1374  0      !  (lower word = lower limit, upper word = upper limit)
;    1375  0      literal NFB$C_LNI_MAD = 16842782;       !  Maximum address
;    1376  0      literal NFB$C_LNI_MLN = 16842783;       !  Maximum lines
;    1377  0      literal NFB$C_LNI_MCO = 16842784;       !  Maximum cost
;    1378  0      literal NFB$C_LNI_MHO = 16842785;       !  Maximum hops
;    1379  0      literal NFB$C_LNI_MVI = 16842786;       !  Maximum visits
;    1380  0      literal NFB$C_LNI_MBU = 16842787;       !  Maximum buffers
;    1381  0      literal NFB$C_LNI_BUS = 16842788;       !  Forwarding buffer size
;    1382  0      literal NFB$C_LNI_LPC = 16842789;       !  Loop count
;    1383  0      literal NFB$C_LNI_LPL = 16842790;       !  Loop length
;    1384  0      literal NFB$C_LNI_LPD = 16842791;       !  Loop Data type
;    1385  0      literal NFB$C_LNI_DAC = 16842792;       !  Default access switch (inbound, outbound, etc)
;    1386  0      literal NFB$C_LNI_DPX = 16842793;       !  Default proxy access (inbound, outbound, etc)
;    1387  0      literal NFB$C_LNI_PIQ = 16842794;       !  Pipeline quota
;    1388  0      literal NFB$C_LNI_LPH = 16842795;       !  Loop help type of assistance given to loop requestors
;    1389  0      literal NFB$C_LNI_BRT = 16842796;       !  Broadcast routing timer
;    1390  0      literal NFB$C_LNI_MAR = 16842797;       !  Maximum areas
;    1391  0      literal NFB$C_LNI_MBE = 16842798;       !  Maximum nonrouters on NI
;    1392  0      literal NFB$C_LNI_MBR = 16842799;       !  Maximum routers on NI
;   0       literal NFB$C_LNI_AMC = 16842800;       !  Area maximum cost
;   0       literal NFB$C_LNI_AMH = 16842801;       !  Area maximum hops
;   0       literal NFB$C_LNI_SBS = 16842802;       !  Segment buffer size
;   0       literal NFB$C_LNI_ALI = 16842803;       !  Alias local node address (cluster address)
;   0       !
;   0       !    String parameters
;   0       !
;   0       literal NFB$C_LNI_COL = 16908352;       !  Collating field
;   0       literal NFB$C_LNI_NAM = 16908353;       !  Local node name
;   0       literal NFB$C_LNI_CNT = 16908354;       !  Counters
;   0       literal NFB$C_LNI_IDE = 16908355;       !  Identification
;   0       literal NFB$C_LNI_MVE = 16908356;       !  Management version
;   0       literal NFB$C_LNI_NVE = 16908357;       !  Nsp version
;   0       literal NFB$C_LNI_RVE = 16908358;       !  Routing version
;   0       literal NFB$C_LNI_PHA = 16908359;       !  Physical NI address (current address)
;   0       !
;   0       !  Define a field identifier index for each parameter in the OBI database.
;   0       !
;   0       !
;   0       !    Boolean Parameters
;   0       !
;   0       literal NFB$C_OBI_LCK = 50331649;       !  Set if conditionally writable fields are not writable
;   0       literal NFB$C_OBI_SET = 50331650;       !  Set if a "set" QIO has ever modified the CNF. If
;   0       !  not then the CNF was due to a "declare name/obect"
;   0       !  only and may be deleted when the declaring process
;   0       !  breaks the channel over which the object was declared
;   0       !
;   0       !    Longword Parameters
;   0       !
;   0       literal NFB$C_OBI_LPR = 50397200;       !  Low order privileges
;   0       literal NFB$C_OBI_HPR = 50397201;       !  High order privileges
;   0       literal NFB$C_OBI_UCB = 50397202;       !  Owner's UCB address
;   0       literal NFB$C_OBI_CHN = 50397203;       !  Owner's channel
;   0       literal NFB$C_OBI_NUM = 50397204;       !  Number
;   0       literal NFB$C_OBI_PID = 50397205;       !  Process id
;   0       literal NFB$C_OBI_PRX = 50397206;       !  Proxy login switch (inbound, outbound, etc)
;   0       !
;   0       !    String Parameters
;   0       !
;   0       literal NFB$C_OBI_COL = 50462784;       !  Collating field
;   0       literal NFB$C_OBI_ZNA = 50462785;       !  Zero obj+name identifier
;   0       literal NFB$C_OBI_SFI = 50462786;       !  Parsed file i.d.
;   0       literal NFB$C_OBI_IAC = 50462787;       !  Default inbound combined access control string
;   0       literal NFB$C_OBI_NAM = 50462788;       !  Name
;   0       literal NFB$C_OBI_FID = 50462789;       !  File id
;   0       literal NFB$C_OBI_USR = 50462790;       !  User id
;   0       literal NFB$C_OBI_ACC = 50462791;       !  Account
;   0       literal NFB$C_OBI_PSW = 50462792;       !  Password
;   0       !
;   0       !  Define a field identifier index for each parameter in the CRI database.
;   0       !
;   0       !
;   0       !                       /* Use
;   0       !                       /* ----
;   0       !                       C = common
;   0       !                        E = Executor (used by Transport)
;   0       !                       X = Native X.25 network management
;   1450 0      !                        D = DECnet (not X.25)
;   1451 0      !
;   1452 0      !
;   1453 0      !    Boolean Parameters
;   1454 0      !
;   1455 0      literal NFB$C_CRI_LCK = 67108865;       !  D Set if conditionally writable fields are
;   1456 0      !        not writable
;   1457 0      literal NFB$C_CRI_SER = 67108866;       !  D Set if Service functions not allowed
;   1458 0      literal NFB$C_CRI_BLK = 67108867;       !  E Blocking
;   1459 0      literal NFB$C_CRI_VER = 67108868;       !  D Transport verification requested if set
;   1460 0      literal NFB$C_CRI_DLM = 67108869;       !  E Circuit to be used as X.25 datalink, if set
;   1461 0      !        If clear, circuit is for X.25 native use
;   1462 0      !
;   1463 0      !    "Longword" parameters
;   1464 0      !
;   1465 0      literal NFB$C_CRI_OWPID = 67174416;     !  D PID of temp owner of line in service state
;   1466 0      literal NFB$C_CRI_CTA = 67174417;       !  D Absolute due time for counter logging
;   1467 0      literal NFB$C_CRI_SRV = 67174418;       !  D Service substate qualifier
;   1468 0      literal NFB$C_CRI_STA = 67174419;       !  C State
;   1469 0      literal NFB$C_CRI_SUB = 67174420;       !  C Substate
;   1470 0      literal NFB$C_CRI_LCT = 67174421;       !  C Counter timer
;   1471 0      literal NFB$C_CRI_PNA = 67174422;       !  E Adjacent node address
;   1472 0      literal NFB$C_CRI_BLO = 67174423;       !  E Partner's receive block size
;   1473 0      literal NFB$C_CRI_COS = 67174424;       !  E Cost
;   1474 0      literal NFB$C_CRI_HET = 67174425;       !  E Hello timer
;   1475 0      literal NFB$C_CRI_LIT = 67174426;       !  E Listen timer
;   1476 0      literal NFB$C_CRI_MRC = 67174427;       !  E Maximum recalls
;   1477 0      literal NFB$C_CRI_RCT = 67174428;       !  E Recall timer
;   1478 0      literal NFB$C_CRI_POL = 67174429;       !  D Polling state
;   1479 0      literal NFB$C_CRI_PLS = 67174430;       !  D Polling substate
;   1480 0      literal NFB$C_CRI_USE = 67174431;       !  X Usage
;   1481 0      literal NFB$C_CRI_TYP = 67174432;       !  C Type
;   1482 0      literal NFB$C_CRI_CHN = 67174433;       !  X X.25 Channel
;   1483 0      literal NFB$C_CRI_MBL = 67174434;       !  X Maximum block
;   1484 0      literal NFB$C_CRI_MWI = 67174435;       !  X Maximum window
;   1485 0      literal NFB$C_CRI_TRI = 67174436;       !  D Tributary
;   1486 0      literal NFB$C_CRI_BBT = 67174437;       !  D Babble timer
;   1487 0      literal NFB$C_CRI_TRT = 67174438;       !  D Transmit timer
;   1488 0      literal NFB$C_CRI_MRB = 67174439;       !  D Maximum receive buffers
;   1489 0      literal NFB$C_CRI_MTR = 67174440;       !  D Maximum transmits
;   1490 0      literal NFB$C_CRI_ACB = 67174441;       !  D Active base
;   1491 0      literal NFB$C_CRI_ACI = 67174442;       !  D Active increment
;   1492 0      literal NFB$C_CRI_IAB = 67174443;       !  D Inactive base
;   1493 0      literal NFB$C_CRI_IAI = 67174444;       !  D Inactive increment
;   1494 0      literal NFB$C_CRI_IAT = 67174445;       !  D Inactive threshold
;   1495 0      literal NFB$C_CRI_DYB = 67174446;       !  D Dying base
;   1496 0      literal NFB$C_CRI_DYI = 67174447;       !  D Dying increment
;   1497 0      literal NFB$C_CRI_DYT = 67174448;       !  D Dying threshold
;   1498 0      literal NFB$C_CRI_DTH = 67174449;       !  D Dead threshold
;   1499 0      literal NFB$C_CRI_MST = 67174450;       !  D Maintenance mode state (0 => On, 1 => Off>
;   1500 0      literal NFB$C_CRI_XPT = 67174451;       !  E Transport protocol to use
;   1501 0      literal NFB$C_CRI_MRT = 67174452;       !  E Maximum routers on this NI
;   1502 0      literal NFB$C_CRI_RPR = 67174453;       !  E Router priority
;   1503 0      literal NFB$C_CRI_DRT = 67174454;       !  E Designated router on NI (node address)
;   1504 0      !
;   1505 0      !    String Parameters
;   1506 0      !
;     1507  0      literal NFB$C_CRI_COL = 67240000;        ! D Collating field
;     1508  0      literal NFB$C_CRI_NAM = 67240001;        ! C Circuit name
;     1509  0      literal NFB$C_CRI_VMSNAM = 67240002;     ! D Device name in VMS format
;     1510  0      literal NFB$C_CRI_CHR = 67240003;        ! D Characteristics buffer for startup control QIO
;     1511  0      literal NFB$C_CRI_CNT = 67240004;        ! C Counters
;     1512  0      literal NFB$C_CRI_P2P = 67240005;        ! D Line's PhaseII partner name (for loopback)
;     1513  0      literal NFB$C_CRI_LOO = 67240006;        ! E Loopback name
;     1514  0      literal NFB$C_CRI_PNN = 67240007;        ! E Adjacent node name
;     1515  0      literal NFB$C_CRI_NUM = 67240008;        ! X Call Number
;     1516  0      literal NFB$C_CRI_DTE = 67240009;        ! X DTE
;     1517  0      literal NFB$C_CRI_DEVNAM = 67240010;     ! D Device name in VMS format, with unit included
;     1518  0      !
;     1519  0      !   Define a field identifier index for each parameter in the PLI database.
;     1520  0      !
;     1521  0      !                       C = common
;     1522  0      !                       L = LAPB (X.25)
;     1523  0      !                       D = DDCMP (not X.25)
;     1524  0      !                       E = Ethernet
;     1525  0      !
;     1526  0      !                       /* Use
;     1527  0      !   ----
;     1528  0      !
;     1529  0      !     Boolean Parameters
;     1530  0      !
;     1531  0      literal NFB$C_PLI_LCK = 83886081;        ! D Set if conditionally writable fields are
;     1532  0      !          not writable
;     1533  0      literal NFB$C_PLI_SER = 83886082;        ! D Service
;     1534  0      literal NFB$C_PLI_DUP = 83886083;        ! C Duplex (set if half)
;     1535  0      literal NFB$C_PLI_CON = 83886084;        ! C Controller (set if loopback)
;     1536  0      literal NFB$C_PLI_CLO = 83886085;        ! C Clock mode (set if internal)
;     1537  0      !
;     1538  0      !     "Longword"  Parameters
;     1539  0      !
;     1540  0      literal NFB$C_PLI_CTA = 83951632;        ! D Absolute time for counter read and clear
;     1541  0      literal NFB$C_PLI_STA = 83951633;        ! C State
;     1542  0      literal NFB$C_PLI_SUB = 83951634;        ! C Substate
;     1543  0      literal NFB$C_PLI_LCT = 83951635;        ! D Counter timer
;     1544  0      literal NFB$C_PLI_PRO = 83951636;        ! C Protocol
;     1545  0      literal NFB$C_PLI_STI = 83951637;        ! D Service timer
;     1546  0      literal NFB$C_PLI_HTI = 83951638;        ! L Holdback timer
;     1547  0      literal NFB$C_PLI_MBL = 83951639;        ! L Maximum block
;     1548  0      literal NFB$C_PLI_MRT = 83951640;        ! L Maximum retransmits
;     1549  0      literal NFB$C_PLI_MWI = 83951641;        ! L Maximum window
;     1550  0      literal NFB$C_PLI_SLT = 83951642;        ! D Scheduling timer
;     1551  0      literal NFB$C_PLI_DDT = 83951643;        ! D Dead timer
;     1552  0      literal NFB$C_PLI_DLT = 83951644;        ! D Delay timer
;     1553  0      literal NFB$C_PLI_SRT = 83951645;        ! D Stream timer
;     1554  0      literal NFB$C_PLI_BFN = 83951646;        ! D Receive buffers
;     1555  0      literal NFB$C_PLI_BUS = 83951647;        ! D Action routine returns bufsiz used for line
;     1556  0      literal NFB$C_PLI_PLVEC = 83951648;      ! D PLVEC i.d.
;     1557  0      literal NFB$C_PLI_RTT = 83951649;        ! D Retransmit timer
;     1558  0      literal NFB$C_PLI_MOD = 83951650;        ! L X.25 mode (DCE, DTE, etc).
;     1559  0      literal NFB$C_PLI_LPC = 83951651;        ! L Loop count
;     1560  0      literal NFB$C_PLI_LPL = 83951652;        ! L Loop length
;     1561  0      literal NFB$C_PLI_LPD = 83951653;        ! L Loop Data type
;     1562  0      literal NFB$C_PLI_EPT = 83951654;        ! E Ethernet protocol type for datalink
;     1563  0      literal NFB$C_PLI_BFS = 83951655;        ! C Line buffer size (overrides executor bufsiz)
;  0      !
;  0      !     String Parameters
;  0      !
;  0      literal NFB$C_PLI_COL = 84017216;       !  D Collating field
;  0      literal NFB$C_PLI_NAM = 84017217;       !  C Line name
;  0      literal NFB$C_PLI_VMSNAM = 84017218;    !  D Device name in VMS format
;  0      literal NFB$C_PLI_CHR = 84017219;       !  D Set-mode $QIO line Characteristics buffer
;  0      literal NFB$C_PLI_CNT = 84017220;       !  C Counters
;  0      literal NFB$C_PLI_MCD = 84017221;       !  L Filespec for microcode dump (initiates dump)
;  0      literal NFB$C_PLI_HWA = 84017222;       !  D NI hardware address (ROM address)
;  0      literal NFB$C_PLI_DEVNAM = 84017223;    !  D Device name in VMS format, with unit included
;  0      !
;  0      ! Define a field identifier index for each parameter in the EFI database.
;  0      !
;  0      !
;  0      !     Boolean Parameters
;  0      !
;  0      literal NFB$C_EFI_LCK = 100663297;      !  Set if conditionally writable fields are not writable
;  0      !
;  0      !     "Longword" Parameters
;  0      !
;  0      literal NFB$C_EFI_SIN = 100728848;
;  0      literal NFB$C_EFI_SP1 = 100728849;
;  0      literal NFB$C_EFI_B1 = 100728850;
;  0      literal NFB$C_EFI_B2 = 100728851;
;  0      !
;  0      !     String Parameters
;  0      !
;  0      literal NFB$C_EFI_COL = 100794432;      !  Collating field
;  0      literal NFB$C_EFI_EVE = 100794433;
;  0      literal NFB$C_EFI_SB1 = 100794434;
;  0      literal NFB$C_EFI_SB2 = 100794435;
;  0      literal NFB$C_EFI_SB3 = 100794436;
;  0      !
;  0      ! Define a field identifier index for each parameter in the ESI database.
;  0      !
;  0      !
;  0      !     Boolean Parameters
;  0      !
;  0      literal NFB$C_ESI_LCK = 117440513;      !  Set if conditionally writable fields are not writable
;  0      !
;  0      !     "Longword" Parameters
;  0      !
;  0      literal NFB$C_ESI_SNK = 117506064;
;  0      literal NFB$C_ESI_STA = 117506065;
;  0      literal NFB$C_ESI_SP1 = 117506066;
;  0      literal NFB$C_ESI_B1 = 117506067;
;  0      literal NFB$C_ESI_B2 = 117506068;
;  0      !
;  0      !     String Parameters
;  0      !
;  0      literal NFB$C_ESI_COL = 117571648;      !  Collating field
;  0      literal NFB$C_ESI_LNA = 117571649;
;  0      literal NFB$C_ESI_SB1 = 117571650;
;  0      literal NFB$C_ESI_SB2 = 117571651;
;  0      literal NFB$C_ESI_SB3 = 117571652;
;  0      !
```

```
0        !  Define a field identifier index for each parameter in the LLI database.
0        !
0        !
0        !     Boolean Parameters
0        !
0        literal NFB$C_LLI_LCK = 134217729;       !  Set if conditionally writable fields are not writable
0        !
0        !     Longword Parameters
0        !
0        literal NFB$C_LLI_DLY = 134283280;       !  Round trip delay time
0        literal NFB$C_LLI_STA = 134283281;       !  State
0        literal NFB$C_LLI_LLN = 134283282;       !  Local link number
0        literal NFB$C_LLI_RLN = 134283283;       !  Remote link number
0        literal NFB$C_LLI_PNA = 134283284;       !  Partner's node address
0        literal NFB$C_LLI_PID = 134283285;       !  External Process I.D.
0        literal NFB$C_LLI_IPID = 134283286;      !  Internal Process I.D.
0        literal NFB$C_LLI_XWB = 134283287;       !  Pointer to XWB
0        literal NFB$C_LLI_CNT = 134283288;       !  Counters
0        !
0        !     String Parameters
0        !
0        literal NFB$C_LLI_COL = 134348864;       !  Collating field
0        literal NFB$C_LLI_USR = 134348865;       !  User name
0        literal NFB$C_LLI_PRC = 134348866;       !  Process name
0        literal NFB$C_LLI_PNN = 134348867;       !  Partner's node name
0        literal NFB$C_LLI_RID = 134348868;       !  Partner's process i.d.
0        !
0        !  X.25 network parameters (part of MODULE X25-PROTOCOL)
0        !
0        !  Define a field identifier index for each parameter in the XNI database.
0        !
0        !
0        !     Boolean Parameters
0        !
0        literal NFB$C_XNI_LCK = 150994945;       !  Set if conditionally writable fields are not writable
0        literal NFB$C_XNI_MNS = 150994946;       !  X.25 multi-network support (set if enabled)
0        !
0        !     "Longword" Parameters
0        !
0        literal NFB$C_XNI_CAT = 151060496;       !  Call timer
0        literal NFB$C_XNI_CLT = 151060497;       !  Clear timer
0        literal NFB$C_XNI_DBL = 151060498;       !  Default data
0        literal NFB$C_XNI_DWI = 151060499;       !  Default window
0        literal NFB$C_XNI_MBL = 151060500;       !  Maximum data
0        literal NFB$C_XNI_MCL = 151060501;       !  Maximum clears
0        literal NFB$C_XNI_MRS = 151060502;       !  Maximum resets
0        literal NFB$C_XNI_MST = 151060503;       !  Maximum restarts
0        literal NFB$C_XNI_MWI = 151060504;       !  Maximum window
0        literal NFB$C_XNI_RST = 151060505;       !  Reset timer
0        literal NFB$C_XNI_STT = 151060506;       !  Restart timer
0        !
0        !     String Parameters
0        !
0        literal NFB$C_XNI_COL = 151126080;       !  Collating field
0        literal NFB$C_XNI_NET = 151126081;       !  Network
0        !
0        !  X.25 DTE parameters (qualified by a given network)
```

```
;   0       !
;   0       !  Define a field identifier index for each parameter in the XDI database.
;   0       !
;   0       !
;   0       !     Boolean Parameters
;   0       !
;   0       literal NFB$C_XDI_LCK = 184549377;      !  Set if conditionally writable fields are not writable
;   0       !
;   0       !     "Longword" Parameters
;   0       !
;   0       literal NFB$C_XDI_ACH = 184614928;      !  Active channels
;   0       literal NFB$C_XDI_ASW = 184614929;      !  Active switched
;   0       literal NFB$C_XDI_CTM = 184614930;      !  Counter timer
;   0       literal NFB$C_XDI_MCH = 184614931;      !  Maximum channels
;   0       literal NFB$C_XDI_STA = 184614932;      !  State
;   0       literal NFB$C_XDI_SUB = 184614933;      !  Substate
;   0       literal NFB$C_XDI_MCI = 184614934;      !  Maximum circuits [VMS only]
;   0       !
;   0       !     String Parameters
;   0       !
;   0       literal NFB$C_XDI_COL = 184680512;      !  Collating field
;   0       literal NFB$C_XDI_DTE = 184680513;      !  DTE address
;   0       literal NFB$C_XDI_CHN = 184680514;      !  Channels
;   0       literal NFB$C_XDI_LIN = 184680515;      !  Line
;   0       literal NFB$C_XDI_NET = 184680516;      !  Network
;   0       literal NFB$C_XDI_CNT = 184680517;      !  Counters
;   0       !
;   0       !  X.25 group parameters (qualified by a given DTE)
;   0       !
;   0       !  Define a field identifier index for each parameter in the XGI database.
;   0       !
;   0       !
;   0       !     Boolean Parameters
;   0       !
;   0       literal NFB$C_XGI_LCK = 167772161;      !  Set if conditionally writable fields are not writable
;   0       !
;   0       !     "Longword" Parameters
;   0       !
;   0       literal NFB$C_XGI_GNM = 167837712;      !  Group number
;   0       literal NFB$C_XGI_GTY = 167837713;      !  Group type
;   0       !
;   0       !     String Parameters
;   0       !
;   0       literal NFB$C_XGI_COL = 167903296;      !  Collating field. This field must be unique across
;   0       !   all entries in this database.  It consists of the
;   0       !   group-name string followed by the DTE address.
;   0       literal NFB$C_XGI_GRP = 167903297;      !  Group name
;   0       literal NFB$C_XGI_GDT = 167903298;      !  Group DTE address
;   0       !
;   0       !  X.25 server parameters (global parameters for all destinations)
;   0       !
;   0       !  Define a field identifier index for each parameter in the XS5 database.
;   0       !
;   0       !
;   0       !     Boolean Parameters
;   0       !
;   0       literal NFB$C_XS5_LCK = 201326593;      !  Set if conditionally writable fields are not writable
;   1735  0      !
;   1736  0      !    "Longword" Parameters
;   1737  0      !
;   1738  0      literal NFB$C_XS5_MCI = 201392144;      !  Maximum circuits allowed
;   1739  0      literal NFB$C_XS5_STA = 201392145;      !  State
;   1740  0      literal NFB$C_XS5_ACI = 201392146;      !  Active circuits
;   1741  0      literal NFB$C_XS5_CTM = 201392147;      !  Counter timer
;   1742  0      !
;   1743  0      !    String Parameters
;   1744  0      !
;   1745  0      literal NFB$C_XS5_COL = 201457728;      !  Collating field. This field must be unique across
;   1746  0      !  all entries in this database.
;   1747  0      literal NFB$C_XS5_CNT = 201457729;      !  Counters
;   1748  0      !
;   1749  0      !  X.25 destination parameters (part of MODULE X25-SERVER)
;   1750  0      !
;   1751  0      !  Define a field identifier index for each parameter in the XD5 database.
;   1752  0      !
;   1753  0      !
;   1754  0      !    Boolean Parameters
;   1755  0      !
;   1756  0      literal NFB$C_XD5_LCK = 218103809;      !  Set if conditionally writable fields are not writable
;   1757  0      !
;   1758  0      !    "Longword" Parameters
;   1759  0      !
;   1760  0      literal NFB$C_XD5_PRI = 218169360;      !  Priority
;   1761  0      literal NFB$C_XD5_SAD = 218169361;      !  Subaddress range
;   1762  0      !  (lower word = lower limit, upper word = upper limit)
;   1763  0      literal NFB$C_XD5_NOD = 218169362;      !  Remote node address containing server (gateways only)
;   1764  0      !
;   1765  0      !    String Parameters
;   1766  0      !
;   1767  0      literal NFB$C_XD5_COL = 218234944;      !  Collating field. This field must be unique across
;   1768  0      !  all entries in this database.
;   1769  0      literal NFB$C_XD5_DST = 218234945;      !  Destination DTE address
;   1770  0      literal NFB$C_XD5_CMK = 218234946;      !  Call mask
;   1771  0      literal NFB$C_XD5_CVL = 218234947;      !  Call value
;   1772  0      literal NFB$C_XD5_GRP = 218234948;      !  Group name
;   1773  0      literal NFB$C_XD5_NUM = 218234949;      !  DTE number
;   1774  0      literal NFB$C_XD5_OBJ = 218234950;      !  && Object name
;   1775  0      literal NFB$C_XD5_FIL = 218234951;      !  Command procedure to execute when starting object
;   1776  0      literal NFB$C_XD5_USR = 218234952;      !  User name
;   1777  0      literal NFB$C_XD5_PSW = 218234953;      !  Password
;   1778  0      literal NFB$C_XD5_ACC = 218234954;      !  Account
;   1779  0      !
;   1780  0      !  X.29 server parameters (global parameters for all destinations)
;   1781  0      !
;   1782  0      !  Define a field identifier index for each parameter in the XS9 database.
;   1783  0      !
;   1784  0      !
;   1785  0      !    Boolean Parameters
;   1786  0      !
;   1787  0      literal NFB$C_XS9_LCK = 234881025;      !  Set if conditionally writable fields are not writable
;   1788  0      !
;   1789  0      !    "Longword" Parameters
;   1790  0      !
;   1791  0      literal NFB$C_XS9_MCI = 234946576;      !  Maximum circuits allowed
;    1792  0      literal NFB$C_XS9_STA = 234946577;       !  State
;    1793  0      literal NFB$C_XS9_ACI = 234946578;       !  Active circuits
;    1794  0      literal NFB$C_XS9_CTM = 234946579;       !  Counter timer
;    1795  0      !
;    1796  0      !    String Parameters
;    1797  0      !
;    1798  0      literal NFB$C_XS9_COL = 235012160;       !  Collating field. This field must be unique across
;    1799  0      !  all entries in this database.
;    1800  0      literal NFB$C_XS9_CNT = 235012161;       !  Counters
;    1801  0      !
;    1802  0      !  X.29 destination parameters (part of MODULE X29-SERVER)
;    1803  0      !
;    1804  0      !  Define a field identifier index for each parameter in the XD9 database.
;    1805  0      !
;    1806  0      !
;    1807  0      !    Boolean Parameters
;    1808  0      !
;    1809  0      literal NFB$C_XD9_LCK = 251658241;       !  Set if conditionally writable fields are not writable
;    1810  0      !
;    1811  0      !    "Longword" Parameters
;    1812  0      !
;    1813  0      literal NFB$C_XD9_PRI = 251723792;       !  Priority
;    1814  0      literal NFB$C_XD9_SAD = 251723793;       !  Subaddress range
;    1815  0      !  (lower word = lower limit, upper word = upper limit)
;    1816  0      literal NFB$C_XD9_NOD = 251723794;       !  Remote node address containing server (gateways only)
;    1817  0      !
;    1818  0      !    String Parameters
;    1819  0      !
;    1820  0      literal NFB$C_XD9_COL = 251789376;       !  Collating field. This field must be unique across
;    1821  0      !  all entries in this database.
;    1822  0      literal NFB$C_XD9_DST = 251789377;       !  Destination DTE address
;    1823  0      literal NFB$C_XD9_CMK = 251789378;       !  Call mask
;    1824  0      literal NFB$C_XD9_CVL = 251789379;       !  Call value
;    1825  0      literal NFB$C_XD9_GRP = 251789380;       !  Group name
;    1826  0      literal NFB$C_XD9_NUM = 251789381;       !  DTE number
;    1827  0      literal NFB$C_XD9_OBJ = 251789382;       !  && Object name
;    1828  0      literal NFB$C_XD9_FIL = 251789383;       !  Command procedure to execute when starting object
;    1829  0      literal NFB$C_XD9_USR = 251789384;       !  User name
;    1830  0      literal NFB$C_XD9_PSW = 251789385;       !  Password
;    1831  0      literal NFB$C_XD9_ACC = 251789386;       !  Account
;    1832  0      !
;    1833  0      !  X.25 tracing facility (global) parameters.
;    1834  0      !
;    1835  0      !  Define a field identifier index for each parameter in the XTI database.
;    1836  0      !
;    1837  0      !
;    1838  0      !    Boolean Parameters
;    1839  0      !
;    1840  0      literal NFB$C_XTI_LCK = 268435457;       !  Set if conditionally writable fields are not writable
;    1841  0      !
;    1842  0      !    "Longword" Parameters
;    1843  0      !
;    1844  0      literal NFB$C_XTI_STA = 268501008;       !  State
;    1845  0      literal NFB$C_XTI_BFZ = 268501009;       !  Buffer size
;    1846  0      literal NFB$C_XTI_CPL = 268501010;       !  Capture limit
;    1847  0      literal NFB$C_XTI_MBK = 268501011;       !  Maximum blocks/file
;    1848  0      literal NFB$C_XTI_MBF = 268501012;       !  Maximum number of buffers
;    1849  0       literal NFB$C_XTI_MVR = 268501013;      !  Maximum trace file version number
;    1850  0       !
;    1851  0       !    String Parameters
;    1852  0       !
;    1853  0       literal NFB$C_XTI_COL = 268566592;      !  Collating field. This field must be unique across
;    1854  0       !  all entries in this database.
;    1855  0       literal NFB$C_XTI_FNM = 268566593;      !  Trace file name
;    1856  0       !
;    1857  0       !  X.25 tracpoint (local) parameters.
;    1858  0       !
;    1859  0       !  Define a field identifier index for each parameter in the XTT database.
;    1860  0       !
;    1861  0       !
;    1862  0       !    Boolean Parameters
;    1863  0       !
;    1864  0       literal NFB$C_XTT_LCK = 285212673;      !  Set if conditionally writable fields are not writable
;    1865  0       !
;    1866  0       !    "Longword" Parameters
;    1867  0       !
;    1868  0       literal NFB$C_XTT_TST = 285278224;      !  State
;    1869  0       literal NFB$C_XTT_CPS = 285278225;      !  Capture size
;    1870  0       !
;    1871  0       !    String Parameters
;    1872  0       !
;    1873  0       literal NFB$C_XTT_COL = 285343808;      !  Collating field. This field must be unique across
;    1874  0       !  all entries in this database.
;    1875  0       literal NFB$C_XTT_TPT = 285343809;      !  Tracepoint name
;    1876  0       !
;    1877  0       !  X.25 Access (qualified by a given network)
;    1878  0       !
;    1879  0       !  Define a field identifier index for each parameter in the XAI database.
;    1880  0       !
;    1881  0       !
;    1882  0       !    Boolean Parameters
;    1883  0       !
;    1884  0       literal NFB$C_XAI_LCK = 452984833;      !  Set if conditionally writable fields are not writable
;    1885  0       !
;    1886  0       !    "Longword" Parameters
;    1887  0       !
;    1888  0       literal NFB$C_XAI_NDA = 453050384;      !  Node address
;    1889  0       !
;    1890  0       !    String Parameters
;    1891  0       !
;    1892  0       literal NFB$C_XAI_COL = 453115968;      !  Collating field
;    1893  0       literal NFB$C_XAI_NET = 453115969;      !  Network
;    1894  0       literal NFB$C_XAI_USR = 453115970;      !  User id
;    1895  0       literal NFB$C_XAI_PSW = 453115971;      !  Password
;    1896  0       literal NFB$C_XAI_ACC = 453115972;      !  Account
;    1897  0       literal NFB$C_XAI_NOD = 453115973;      !  Node id
;    1898  0       !
;    1899  0       !  Define SPI (Server Process) parameters
;    1900  0       !
;    1901  0       !
;    1902  0       !    Boolean Parameters
;    1903  0       !
;    1904  0       literal NFB$C_SPI_LCK = 301989889;      !  Set if conditionally writable fields are not writable
;    1905  0       literal NFB$C_SPI_PRL = 301989890;      !  Proxy flag which initially started server process
;    1906  0      !
;    1907  0      !     Longword Parameters
;    1908  0      !
;    1909  0      literal NFB$C_SPI_PID = 302055440;      !  Server PID
;    1910  0      literal NFB$C_SPI_IRP = 302055441;      !  IRP of waiting DECLSERV QIO (0 if process active)
;    1911  0      literal NFB$C_SPI_CHN = 302055442;      !  Channel associated with DECLSERV IRP
;    1912  0      literal NFB$C_SPI_RNA = 302055443;      !  Remote node address which initially started server
;    1913  0      !
;    1914  0      !     String Parameters
;    1915  0      !
;    1916  0      literal NFB$C_SPI_COL = 302121024;      !  Collating field
;    1917  0      literal NFB$C_SPI_ACS = 302121025;      !  ACS used to initally start server process
;    1918  0      literal NFB$C_SPI_RID = 302121026;      !  Remote user ID which initially started server
;    1919  0      literal NFB$C_SPI_SFI = 302121027;      !  Last (current) SFI given to server process
;    1920  0      literal NFB$C_SPI_NCB = 302121028;      !  Last (current) NCB given to server process
;    1921  0      literal NFB$C_SPI_PNM = 302121029;      !  Last (current) process name given to server
;    1922  0      !
;    1923  0      !   Define AJI (Adjacency) parameters
;    1924  0      !
;    1925  0      !
;    1926  0      !     Boolean Parameters
;    1927  0      !
;    1928  0      literal NFB$C_AJI_LCK = 318767105;      !  Set if conditionally writable fields are not writable
;    1929  0      literal NFB$C_AJI_REA = 318767106;      !  Reachable (set if two-way communication established)
;    1930  0      !
;    1931  0      !     Longword Parameters
;    1932  0      !
;    1933  0      literal NFB$C_AJI_ADD = 318832656;      !  Node address
;    1934  0      literal NFB$C_AJI_TYP = 318832657;      !  Node type
;    1935  0      literal NFB$C_AJI_LIT = 318832658;      !  Listen timer for this adjacency
;    1936  0      literal NFB$C_AJI_BLO = 318832659;      !  Partner's block size
;    1937  0      literal NFB$C_AJI_RPR = 318832660;      !  Partner's router priority (on NI)
;    1938  0      !
;    1939  0      !     String Parameters
;    1940  0      !
;    1941  0      literal NFB$C_AJI_COL = 318898240;      !  Collating field
;    1942  0      literal NFB$C_AJI_NNA = 318898241;      !  Node name
;    1943  0      literal NFB$C_AJI_CIR = 318898242;      !  Circuit name
;    1944  0      !
;    1945  0      !   Define SDI (Service DLE) parameters
;    1946  0      !
;    1947  0      !
;    1948  0      !     Boolean Parameters
;    1949  0      !
;    1950  0      literal NFB$C_SDI_LCK = 436207617;      !  Set if conditionally writable fields are not writable
;    1951  0      !
;    1952  0      !     Longword Parameters
;    1953  0      !
;    1954  0      literal NFB$C_SDI_SUB = 436273168;      !  Service substate
;    1955  0      literal NFB$C_SDI_PID = 436273169;      !  PID of process owning this DLE link
;    1956  0      !
;    1957  0      !     String Parameters
;    1958  0      !
;    1959  0      literal NFB$C_SDI_COL = 436338752;      !  Collating field
;    1960  0      literal NFB$C_SDI_CIR = 436338753;      !  Circuit name
;    1961  0      literal NFB$C_SDI_PHA = 436338754;      !  Service physical address (BC only)
;    1962  0      literal NFB$C_SDI_PRC = 436338755;      !  Name of process owning this DLE link
;    1963  0     !
;    1964  0     !   Define the AREA database (read only) for level 2 Phase IV routers only.
;    1965  0     !
;    1966  0     !
;    1967  0     !     Boolean parameters
;    1968  0     !
;    1969  0     literal NFB$C_ARI_LCK = 335544321;        !  Set if conditionally writable fields are not writable
;    1970  0     literal NFB$C_ARI_REA = 335544322;        !  Set if node is reachable
;    1971  0     !
;    1972  0     !     "Longword" Parameters
;    1973  0     !
;    1974  0     literal NFB$C_ARI_ADD = 335609872;        !  Address
;    1975  0     literal NFB$C_ARI_DCO = 335609873;        !  Destination Cost
;    1976  0     literal NFB$C_ARI_DHO = 335609874;        !  Destination Hops
;    1977  0     literal NFB$C_ARI_NND = 335609875;        !  Next node address
;    1978  0     !
;    1979  0     !     String parameters
;    1980  0     !
;    1981  0     literal NFB$C_ARI_COL = 335675456;        !  Collating field
;    1982  0     literal NFB$C_ARI_DLI = 335675457;        !  Circuit used for normal traffic to area
;    1983  0     literal NFB$S_NFBDEF4 = 2;
;    1984  0    macro NFB$W_STR_COUNT = 0,0,16,0 %;        !  String count field
;    1985  0    macro NFB$B_STR_TEXT = 2,0,0,0 %;          !  Start of string data
;    1986  0     !
;    1987  0     !    Define identifiers for each parameter in all database
;    1988  0     !
;    1989  0     !     **  The low order 16 bits for each parameter must be unique  **
;    1990  0     !    ***  with respect to all other parameters in its particular   ***
;    1991  0     !     **  database.                                                **
;    1992  0     !
;    1993  0     !   Define a field identifier index for each parameter in the NDI database.
;    1994  0     !
;    1995  0     !
;    1996  0     !     Boolean parameters
;    1997  0     !
;    1998  0
;    1999  0     !*** MODULE DR ***
;    2000  0     !
;    2001  0     !   DISCONNECT REASONS
;    2002  0     !
;    2003  0     literal NET$C_DR_NORMAL = 0;              !  NO ERROR (SYNCH DISCONNECT)
;    2004  0     literal NET$C_DR_RSU = 1;                 !  COULDN'T ALLOCATE UCB ADDRESS
;    2005  0     literal NET$C_DR_NONODE = 2;              !  Unrecognized node name
;    2006  0     literal NET$C_DR_SHUT = 3;                !  NODE OR LINE SHUTTING DOWN
;    2007  0     literal NET$C_DR_NOBJ = 4;                !  UNKNOWN OBJECT TYPE OR PROCESS
;    2008  0     literal NET$C_DR_FMT = 5;                 !  ILLEGAL PROCESS NAME FIELD
;    2009  0     literal NET$C_DR_BUSY = 6;                !  Object too busy
;    2010  0     literal NET$C_DR_PROTCL = 7;              !  GENERAL PROTOCOL ERROR
;    2011  0     literal NET$C_DR_THIRD = 8;               !  THIRD PARTY DISCONNECT
;    2012  0     literal NET$C_DR_ABORT = 9;               !  DISCONNECT ABORT
;    2013  0     literal NET$C_DR_IVNODE = 2;              !  Invalid node name format
;    2014  0     literal NET$C_DR_NONZ = 21;               !  NON-ZERO DST ADDRESS
;    2015  0     literal NET$C_DR_BADLNK = 22;             !  INCONSISTENT DSTLNK
;    2016  0     literal NET$C_DR_ZERO = 23;               !  ZERO SOURCE ADDRESS
;    2017  0     literal NET$C_DR_BADFC = 24;              !  FCVAL ILLEGAL
;    2018  0     literal NET$C_DR_NOCON = 32;              !  NO CONNECT SLOTS AVAILABLE
;    2019  0     literal NET$C_DR_ACCESS = 34;             !  INVALID ACCESS CONTROL
;    2020  0        literal NET$C_DR_BADSRV = 35;               !  LOGICAL LINK SERVICES MISMATCH
;    2021  0        literal NET$C_DR_ACCNT = 36;                !  INVALID ACCOUNT INFORMATION
;    2022  0        literal NET$C_DR_SEGSIZ = 37;               !  SEGSIZE TOO SMALL
;    2023  0        literal NET$C_DR_EXIT = 38;                 !  USER EXIT OR TIMEOUT
;    2024  0        literal NET$C_DR_NOPATH = 39;               !  NO PATH TO DESTINATION NODE
;    2025  0        literal NET$C_DR_LOSS = 40;                 !  LOSS OF DATA HAS OCCURRED
;    2026  0        literal NET$C_DR_NOLINK = 41;               !  ILLEGAL MSG FOR LINK NOLINK STATE
;    2027  0        literal NET$C_DR_CONF = 42;                 !  REAL DISCONNECT CONFIRM
;    2028  0        literal NET$C_DR_IMLONG = 43;               !  IMAGE DATA FIELD TOO LONG
;    2029  0     ! *****************************************************************************************************
;    2030  0     !  Created 15-SEP-1984 23:06:45  by  VAX-11 SDL V2.0       Source: 15-SEP-1984 22:47:57 _$255$DUA28:[NETACP.SRC]DLED
;    2031  0     ! *****************************************************************************************************
;    2032  0
;    2033  0
;    2034  0     !*** MODULE dwb ***
;    2035  0     literal dwb$m_run = 1;
;    2036  0     literal dwb$m_dll_rbf = 2;
;    2037  0     literal dwb$m_dll_xbf = 4;
;    2038  0     literal dwb$m_bc = 8;
;    2039  0     literal dwb$m_delete = 16;
;    2040  0     literal dwb$C_length = 80;
;    2041  0     literal dwb$S_dwb = 80;
;    2042  0     macro dwb$L_flink = 0,0,32,0 %;
;    2043  0     macro dwb$L_blink = 4,0,32,0 %;
;    2044  0     macro dwb$w_size = 8,0,16,1 %;
;    2045  0     macro dwb$b_type = 10,0,8,1 %;
;    2046  0     macro dwb$b_access = 11,0,8,1 %;
;    2047  0     macro dwb$w_refcnt = 12,0,16,1 %;
;    2048  0     macro dwb$W_flags = 14,0,16,0 %;
;    2049  0     literal dwb$s_flags = 2;
;    2050  0     macro dwb$v_run = 14,0,1,0 %;
;    2051  0     macro dwb$v_dll_rbf = 14,1,1,0 %;
;    2052  0     macro dwb$v_dll_xbf = 14,2,1,0 %;
;    2053  0     macro dwb$v_bc = 14,3,1,0 %;
;    2054  0     macro dwb$v_delete = 14,4,1,0 %;
;    2055  0     macro dwb$v_fill_1 = 14,5,11,0 %;
;    2056  0     literal dwb$s_fill_1 = 11;
;    2057  0     macro dwb$L_orgucb = 16,0,32,0 %;
;    2058  0     macro dwb$q_rcv_msg = 20,0,0,0 %;
;    2059  0     literal dwb$s_rcv_msg = 8;
;    2060  0     macro dwb$q_user_rcv = 28,0,0,0 %;
;    2061  0     literal dwb$s_user_rcv = 8;
;    2062  0     macro dwb$q_user_xmt = 36,0,0,0 %;
;    2063  0     literal dwb$s_user_xmt = 8;
;    2064  0     macro dwb$q_xmt_pnd = 44,0,0,0 %;
;    2065  0     literal dwb$s_xmt_pnd = 8;
;    2066  0     macro dwb$l_pid = 52,0,32,1 %;
;    2067  0     macro dwb$l_ucb0 = 56,0,32,1 %;
;    2068  0     macro dwb$w_chan = 60,0,16,1 %;
;    2069  0     macro dwb$w_path = 62,0,16,1 %;
;    2070  0     macro dwb$G_remnod = 64,0,0,0 %;
;    2071  0     literal dwb$s_remnod = 6;
;    2072  0     macro dwb$b_substa = 70,0,8,1 %;
;    2073  0     macro dwb$b_irpcnt = 71,0,8,1 %;
;    2074  0     macro dwb$L_dll_ucb = 72,0,32,0 %;
;    2075  0     macro dwb$w_dll_chan = 76,0,16,1 %;
;    2076  0     macro dwb$w_id = 78,0,16,1 %;
;   2077  0        !
;   2078  0        ! Version:      'V04-000'
;   2079  0        !
;   2080  0        !++
;   2081  0        !       NMATAIL.B32
;   2082  0        !
;   2083  0        !       Source to undeclare the macros required for the precompile of
;   2084  0        !       NMALIBRY.B32 so they do not appear in the library.
;   2085  0        !--
;   2086  0
;   2087  0
;   2088  0        UNDECLARE %QUOTE $EQULST,
;   2089  0                %QUOTE GET1ST_,
;   2090  0                %QUOTE GET2ND_,
;   2091  0                %QUOTE NUL2ND_
;   2092  0                ;
;   2093  0
;   2094  0        !
;   2095  0        !       End of NMATAIL.B32
;   2096  0        !




;                                    COMMAND QUALIFIERS

;       BLISS/LIB=LIB$:NET/LIS=LIS$:NET SRC$:LIBHEAD+LIB$:NETCTL+NETNPAGED+NETUSR+DLEDEF+SRC$:LIBTAIL

; Run Time:          00:19.8
; Elapsed Time:      00:31.0
; Lines/CPU Min:      6348
; Lexemes/CPU-Min: 36490
; Memory Used:  227 pages
; Library Precompilation Complete
```

0273 AH-BT13A-SE
VAX/VMS V4.0

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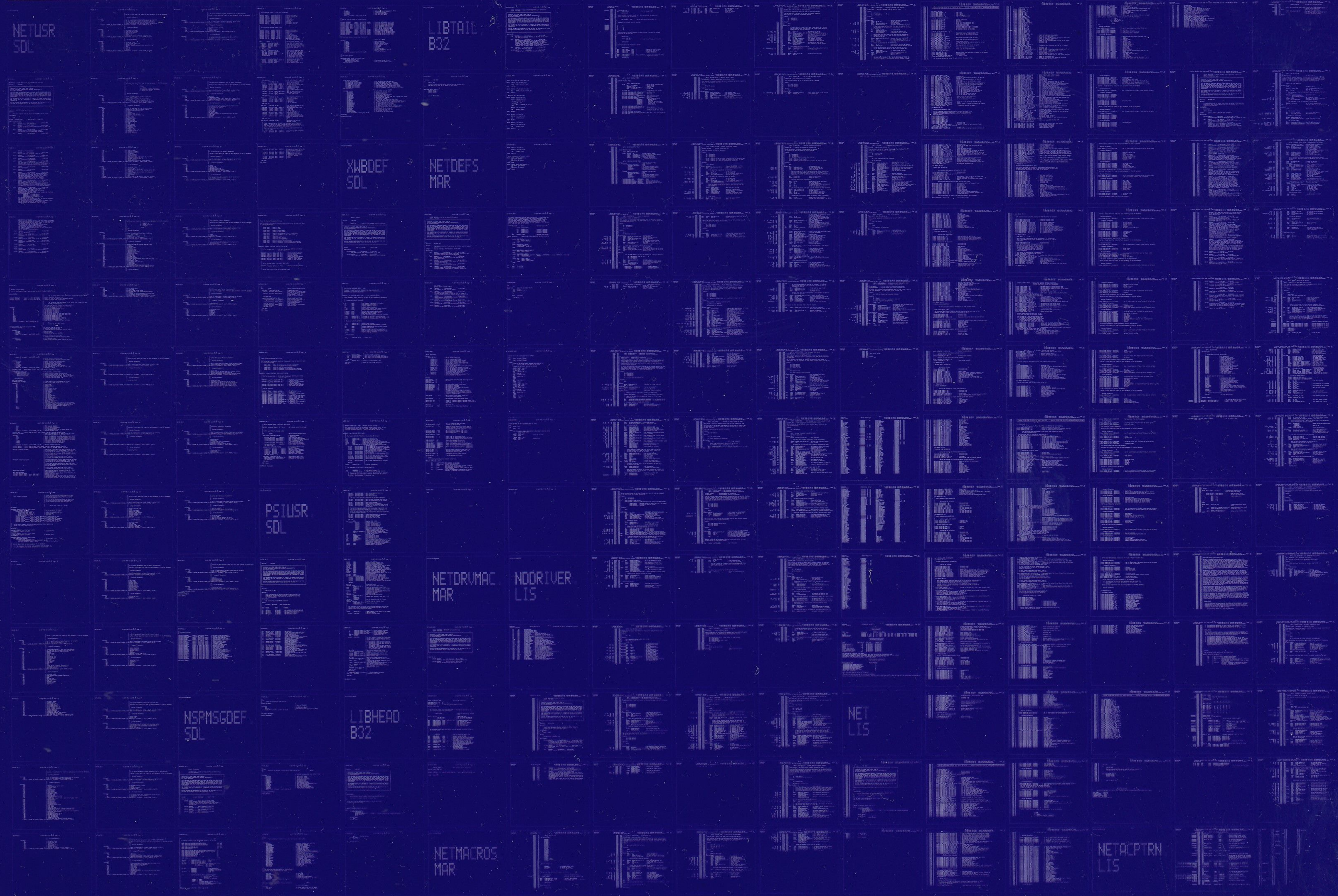

NETUSR
SDL

LIBTAIL
B32

XWBDEF
SDL

NETDEFS
MAR

PSIUSR
SDL

NETDRVMAC
MAR

NDDRIVER
LIS

NSPMSGDEF
SDL

LIBHEAD
B32

NET
LIS

NETMACROS
MAR

NETACPTRN
LIS